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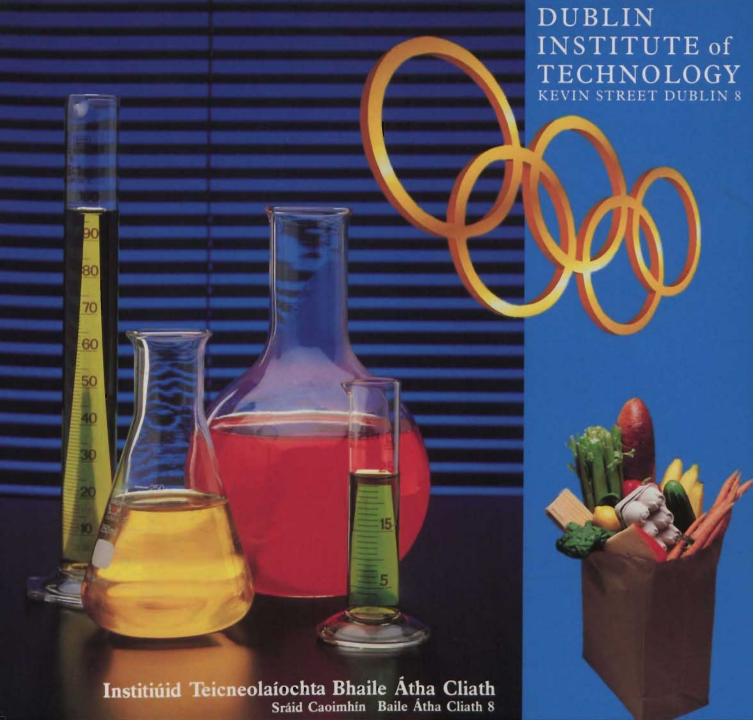
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DUBLIN TECHNOLOGICAL



CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

CALENDAR 1991/92 Féilire



COISTE GAIRM-OIDEACHAIS CHATHAIR BHAILE ÁTHA CLIATH CITY of DUBLIN VOCATIONAL EDUCATION COMMITTEE

INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

DUBLIN INSTITUTE OF TECHNOLOGY

COLÁISTE TEICNEOLAÍOCHTA SRÁID CAOIMHÍN BAILE ÁTHA CLIATH 8

COLLEGE OF TECHNOLOGY KEVIN STREET DUBLIN 8

Guthán 2 + 353-1-757541/6 Fax + 353-1-780282

Priomh-Oide / Principal: F.M. Brennan DipEE CEng FIEI FIEE

Published by CDVEC, Town Hall, Ballsbridge, Dublin 4.

ISBN 0-9517764-0-1

Design by Oben.

Colour Photography by David H. Davison Monochrome Photography by James Robinson

Every effort has been taken by the College to ensure that the information provided in this Calendar is correct at the time of going to press, but the course programmes are subject to continuing development and the College reserves the right to make changes at any time, before or after a candidate's admission. The College reserves the right to limit in size or cancel any course, class or subject grouping.

The College and the CDVEC are not bound by errors in, or omissions from this Calendar.

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Dublin Institute of Technology Kevin Street Dublin 8



Institiúid Teicneolaíochta Bhaile Átha Cliath Sráid Caoimhín Baile Átha Cliath 8

FOREWORD

by F.M. Brennan, Principal.

The Dublin Institute of Technology, Kevin Street, with a history exceeding 100 years, is the longest established of the six Colleges which together comprise the Dublin Institute of Technology. The College can fairly claim to be the foundation of Technical Education in this country.

The College is dedicated to the achievement of several broadly-based objectives:

- To provide, in the context of available resources, the best possible education in the applied sciences and in electrical/electronic engineering, disciplinary areas which are essential to our development at both regional and national levels.
- To respond to changing circumstances by introducing new courses to meet the developing needs of society. Examples include courses in Optometry, in Medical Laboratory Science in all of its many facets, in Food Technology and in Human Nutrition and Dietetics.
- To engage in research, development and consultancy in collaboration with industry and academic and research institutions both in Ireland and abroad, particularly in Europe.
- To assist the State where possible in its programme for developing countries.

The primary function of the College is the provision of third-level education in contributing to the process of formation of those young adults who have completed programmes at second-level. It is essential, however, that this third-level teaching function be underpinned by the involvement of the academic staff in relevant research and development activities in order to maintain and enhance their academic and professional competence.

In an Institute of Technology, the research, development and consultancy that is undertaken must be of an applied nature, i.e. in the main, be of immediate relevance and benefit to society. Thus deriving from an essential requirement of the College in support of effective third-level teaching, there will result a valuable spin-off which will contribute significantly to strengthening the higher technology resources of the State, and the provision of opportunities for post-graduate research.

It is a measure of the College's progress that research projects valued at nearly £2m were initiated in 1990 and that at present the number of registered post-graduate research students is approximately 50. This significant achievement has been won only because of the tremendous

good will and sheer hard work of many members of the College staff and the stretching to almost breaking point of the College's physical resources.

The College is committed to the provision of a range of sensibly designed study programmes which are geared to the learning constraints and capabilities of our students, designed to convey to them the importance of an openness of new ideas, academic, professional and cultural, and to develop in them a capacity for individual thought which is not alone analytical but also creative and imaginative.

In the broader social context it is the aim of the College to create an environment which will develop in the students a sense of integrity and responsibility not alone in respect of professional matters, but also in relation to the community. It is especially concerned to develop further the links with the local community and to inculcate into our students a sense of pride and confidence in themselves, in their College and in their country.

Over the years, the College has time and again set itself agendas which, it would appear, were really only understood by those within the College. Today it is perhaps difficult to recall and fully appreciate the difficulties experienced and the perseverance required by the College in its pioneering of education in Electronic Engineering, in its inclusion of a modern European Language and Business Studies in the programmes for all of its wholetime students, in the introduction in conjunction with its sister College in Bolton Street of Technician courses leading to College qualifications, and in its struggle to establish research in face of a most hostile climate.

A great deal has, even at this stage, been accomplished. Much more is in hand and many worthwhile projects have recently been established. However, we are ever conscious of what remains to be done in order to effect the fullest exploitation of the potential of this institute, and of our need for specialist services, physical resources, appropriate institutional and staffing structures, and hopefully of official recognition and concrete acknowledgement of what has been achieved.

The College can look back with some pride over more than a century of intensive effort to respond to the needs of the community it is privileged to serve. However, in order to continue and, indeed, enhance this service the College must depend on the continued commitment of its staff, growth in the support provided by its many graduates and friends at home and abroad, and the responsible and mature involvement of all its students. Together the staff and students, graduates and friends, in effect form the community that is the Dublin Institute of Technology at Kevin Street.

Everybody has something to give to, and everybody has something to learn from, the other members of the College. This process of giving and taking can draw us closer together.

We, and therefore the College, can all benefit by strengthening the links between us.

F.M. Brennan

Márta 1991

Eolaíocht agus Innealtóireacht ar fáil i Sráid Caoimhín ó 1887

Ar an 24ú lá de mhí na Samhna 1988, d'oscail an t-Aire Oideachais Máire, Bean Uí Ruairc foirgneamh nua, a thug forbairt do spás agus áiseanna an Choláiste. Feachaimís siar ar ghinniúint agus breith an oideachais teicneolaíochta in Éirinn agus go háirithe ar an forbairt atá tagaithe air sa láthair seo ó shin i leith.

Leiríonn stair na gColáistí Teicneolaíochta i mBaile Átha Cliath fás agus forbairt oideachais teicneolaíochta in Éirinn. I rith 1886/1887 agus de bharr agallaimh idir Choiste Sealadach agus Bardas Átha Cliath aontaíodh scoil teicneolaíochta a thógaint i Sr. Chaoimhín. D'oscail an scoil i nDeireadh Fomhair 1887 le 10 muinteoirí, 78 micleinn agus 12 abhair teagaisc. D'oscail Scoil na gCeard i rith titim mhór ins an tionsclaíocht tairgaíochta i mBaile Átha Cliath agus i Sasain féin. Ins an naoiu-aois deag tháinig bagairt ar thionsclaíocht i Sasain trí mhéadú mór san dúshlán on Mhór-Roinn agus ó na Stáit Aontaithe. I Sasain chonacthas an dainséir agus bunaíodh Coimisiún Ríoga in 1881 le modhanna oideachais teicneolaíochta a phlé. De bharr a gcuid fiosrúchán reachtaíodh Acht Teagaisc Teicneolaíochta 1889 a chuir curam an oideachais ar Chomhairlí Áitiúla. In Éirinn níor

bunaíodh Comhairlí Áitiúla go dtí gur tháinig an Acht Rialtais Áitiúil (Éire) isteach i 1898.

I measc na ndaoine a bhí pairteach i mbunú an chéid Scoil Teicniúil i Sráid Caoimhín bhí Arnold Graves, uncal leis an bhfile, a bhí mar runaí don mBord Stiúrtha. Thug Charles Stewart Parnell agus Michael Davitt gach tacaíocht agus bhí an t-ollamh clúteach de Choláiste na Trionóide George Francis Fitzgerald ina bhall den mBord Stiúrtha thosaigh. Mhúin Michael Cusack Gaeilge san scoil. Bhí clann Guinness go fial flaithúil agus thug Edward Cecil Guinness, an céad Iarla Iveagh deontas de £2,500 i 1886 leis an tús a thosnú. Chuidigh saineolaithe an Royal College of Science, Royal College of Surgeons agus an Ollscoil Caitiliceach leis an mbreith.

Ní h-iontach mar sin go raibh deacrachtaí airgid ag baint le forbairt scoile Sráid Chaoimhín ins na blianta roimh 1891 mar a reachtaíodh Acht Teagaisc Teicneolaíochta (1891) in Éirinn. D'ainneoin na ndeacrachtaí bhí 513 micleinn ar na rollaí san seisiúin 1891 – 1892. Ó 1893, nuair a chuir Bardas Átha Cliath an tAcht i bhfeidhm, bhí deontaisí le fáil le trealamh saotharlainne a leathnú agus le cúrsaí nua a stiúiriú. Chonachthas

méadú mór ar tinreamh na scoile in 1895 de bharr na forbartha seo agus tógadh teach, 37, Sr. Chaoimhín (treasna an bhothair on scoil) are chíos leis an bhreis a fhreastal. Chuir an teach seo sé seomraí ranga ar fáil ach faoi 1897 agus le 925 micleinn are na rollaí bhi foirgneamh nua ag teastáil. Tosnaíodh an tógail i Lúnasa 1899 agus osclaíodh an scoil nua i 1901.

Faoi 1904 bhí brú arís ar spás do na ranganna agus tógadh 12, Cearnóg Rutland (anois Cearnóg Parnell) are chíos; freisin osclaíodh an scoil i Sráid Bolton i 1911.

Le bunú Saorstát Éireann i 1922 lean stiúiriú na scoile faoin sean Acht ach i 1924 athraíodh curam teagaisc teicneolaíochta ón Roinn Talmhaíochta go dtí an Roinn Oideachais. I 1930 tháinig an tAcht Gairm-Oideachais (1930) i bhfeidhm agus is ó shin i leith atá stiúiriú teagaisc teicneolaíochta faoi réir na gCoistí Ghairm-Oideachais ar fud na tíre.

Idir an dá chogadh domhanda ní mór an méadú a tháinig ar an scoil i Sr. Chaoimhín agus ní mór an athrú a tháinig ar raon na gcúrsaí. Ag deireadh 1938 afach, bhí breis agus 2,000 micleinn (idir daltaí lae agus oiche) ar na rollaí agus bhí brú mór spáis arís ann. Aistríodh cuid de na cúrsaí go dtí scoileanna eile sa chathair leis an mbrú a mhaolú agus san seisiún 1941/42 cuireadh leis na saotharlanna innealtóireachta.

Le tús an tarna chogaidh domhanda tháinig éileamh mór ar chúrsaí nua. I 1940 bunaíodh cúrsa ar Sheirbhís Raidio, cúrsaí reamh-Ollscoile ins na hÁbhair Eargna; i 1942 bunaíodh cúrsa trí bliana in Innealtóireacht Raidio, cúrsaí don Radharcmháisteóireacht, Poiticéireacht and Raidgrafadóireacht. Bunaíodh freisin cúrsaí Céime BSc d'Ollscoil Londain agus cé nach raibh ach beirt ar an gcúrsa i 1940 bhí 17 faoina bhun i 1949. Ba ins na blianta seo a tháinig cruth Institiúide Triúleibhéil ar an gColáiste.

I dtús an chogaidh ní raibh ach seisear foirne seasmhach sa Choláiste, an Príomh-Oide san áireamh, ach faoi 1950 mhéadaigh an uimhir seo go dtí 22. San am seo bhí breis agus 2,000 macléinn ar na rollaí le 350 acu lánaimsireach. Bhí brú spáis arís ann.

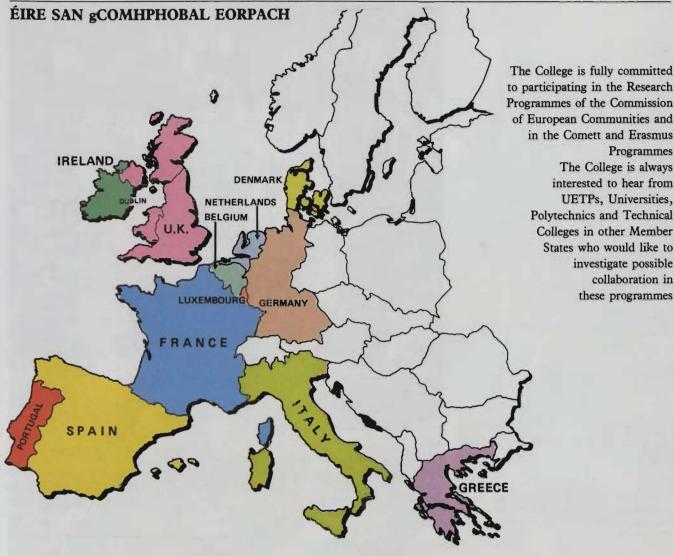
I 1955 ceanaíodh dhá acra i Rae Port Chaoimhín agus i 1959 bhí na pleananna do choláiste nua críochnaithe. I 1963 thosnaigh an tógáil ar an bhfoirgneamh atá inniu ann. Osclaíodh an Coláiste nua go hoifigiúil i mí Mheithimh 1968.

Is fada an t-am é ó 1955 go 1968 agus i rith na tréimhse sin tháinig athrú mór ar chúrsaí an Choláiste. Faoi 1960 bhí 38 foirne seasmhach sa Choláiste agus bhí 21 cúrsaí lán-aimsireacha dá reachtáil. I rith an ama seo freisin bunaíodh cúrsaí speisíalta teagaisc do theicneoirí - teicneoirí innealtóireachta i 1960 agus 1962, teicneoirí saotharlainne leighis i 1963 agus 1965 agus teicneoirí eargna i 1969. Tar-éis 1968 thosnaigh an Coláiste ag bronnadh a chuid teastaisí féin agus le blianta beaga anuas tá ceangal acadúil idir an Coláiste agus Coláiste na Trionóide mar a bronntar Céimeanna Ollscoile san Eargna, san Daon-Bheathú, agus san Innealtóireacht ar mhicléinn a bhaineann Dioploma an Choláiste amach.

I 1978 nascadh na sé Coláistí i mBaile Átha Cliath in Institiúid amháin Teicneolaíochta faoi riar an Choiste Ghairm-Oideachais. Tugadh Institiúid Teichneolaíochta Bhaile Átha Cliath air agus is Coláiste den Institiúid é an ceann i Sráid Chaoimhín a bhaineann le h-Eargna agus le hInnealtóireacht Leictreach, Leictreonach agus Cumarsáide agus le cúrsaí garleighis. I mbliana tá 200 d'fhoireann acadúil seasmhach sa Choláiste, 300 d'fhoireann pháirtaimsireach agus breis is 4,600 micleinn, 2,000 acu lán-aimsearacha agus 130 acu a gabháil le cláracha iarchéimithe. Tá 80 cúrsaí fó-chéimeach le fáil maille le haiseanna iar-chéimithe agus Cúrsaí Proifisiúnta. Tá taighde iar-chéimithe agus iar-dhochtúireachta idir lámha faoi dheontaisí ó eagraisí in Éirinn, ón Roinn Oideachais, ón gComhphobal Eorpach, ó comhluchtaí déantúsaíochta agus ó ionadaithe eagsúla seachtracha eile.

Le méadú mór ó 1980 anonn agus de bharr rachairt ar áiteanna ins na Coláistí Teicneolaíochta Triúleibhéil cuireadh clár tógala i bhfeidhm a tugadh chun críocha i 1988 le foirgneamh agus áiseanna nua; tá 6,500 meadair cearnach spáis breise curtha leis on Choláiste, 25 seomraí ranga, 1,200 meadair cearnach de leabharlann nua agus an achar chéanna mar bhialann nua.

Tá céad agus a ceathair bliain curtha fén gColáiste agus glacann sé le diograis fé dhúshlán an tarna chéid. Tá tradisiún bainte amach, tá na céimithe cruthaithe san tsaol, in Éirinn is i gcéin, tá cumas fairsing air idir foireann agus áiseanna; mic-léinn den céad scoth. Braitheann todhcaí agus leas na tíre ar leanúint foirfúil na forbartha.



to participating in the Research Programmes of the Commission of European Communities and in the Comett and Erasmus Programmes. The College is always interested to hear from UETPs, Universities, Polytechnics and Technical Colleges in other Member States who would like to investigate possible collaboration in these programmes.



View of the Gleeson Hall, DIT Kevin Street on Freshers' Day in September 1990 when new students consider their options in relation to clubs and societies.

SECTION A.1

Courses offered by DIT Kevin Street and Fees

Degrees from the University of Dublin

Undergraduate Courses

Refresher Course for Second-Level Science Teachers

Auch für Europa haben wir eine Antenne!

Tony Breen (rechts), unser Kommunikationstechniker und Dermot F. Campbell (links), Dozent für Deutsch, beim Einstellen der Antenne für optimalen Empfang von Satellitenprogrammen aus ganz Europa.



CÚRSAÍ AR FÁIL I ITBÁC I SRÁID CAOIMHÍN AGUS TÁILLÍ

Courses in Applied Science, Health Science, Food Science, Mathematics and Computing

Cúrsaí san Eargna Fheidmheach, Gar-Leigheas, Bia-Eolaíocht, Matamaitic agus Ríomhaireacht

		CAO/CAS Ref.	College Ref.	Fee/ Táille	Page/ Leath.
Wholetime Degree & Professional Courses / Cúrsaí Céime & Proifísiúnta Lánaimsearacha					
Degree Programmes in Medical Laboratory Sciences					12
Certificate in Medical Laboratory Sciences †	Wholetime	DT 214	WML	yrs 1&2 £530* yr 3 £260*	13
Diploma in Biomedical Sciences BSc(Applied Sciences)					
(Five Programmes)	Wholetime	DT 215	WBS	£800*	14
Graduate Diploma in Food Science and Technology of the Institute of Food Science and Technology (UK)	Wholetime	DT 213	WSFS	£765	15
Graduateship Diploma of the Institute of Biology	Wholetime	DT 219	WSIB	£765	16
Diploma in Applied Sciences BSc(Applied Sciences)		FT22			
(Six Programmes)	Wholetime	DT 222	WSAD	£800*	17
Diploma in Human Nutrition and Dietetics BSc(Human Nutrition and Dietetics)	Wholetime	FT23 DT 223	WBD	yr 1 £1235* yrs 2-4 £1085*	20
Honours Diploma in Computer Science	Wholetime	DT 226	WCS	£800*	22
Diploma in Ophthalmic Optics (Optometry)	Wholetime	DT 272	WSO	yrs 1-3 £800* yr 4 £550*	23
Professional Diploma in Photography	Wholetime	DT 279	WSPH	£800*	25
Graduate Membership Diploma of the Royal Society					
of Chemistry	Wholetime	DT 299	WSIC	£765	26
Part-time Professional Courses / Cúrsaí Proifísiúnta Páirtai	msearacha				
Degree Conversion Course for holders of the Diploma in Dietetics	Part-time		PBD		27
Graduateship Diploma of the Institute of Biology	Part-time		PSIB	£235	28

^{* †} see page 7

		CAO/CAS Ref.	College Ref.	Fee/ Táille	Page Leath.
Graduate Diploma in Food Science and Technology	of the Institute of				
Food Science and Technology (UK)	Evening		S6.3	£200	30
Diploma in Food Science	Evening		S6	£180	31
Graduate Membership Diploma of the Royal Society	of Chemistry Part-time		PSIC	£200	32
Diploma in Applied Physics	Part-time or fulltime		PSAP	£235	33
Graduateship of the Institute of Statisticians	Evening		M6	£145	34
Certificate in Mathematics/Licentiateship of the Inst Mathematics and its Applications	titute of Evening		M4	£180	35
Diploma in Mathematics/Graduateship of the Institu Mathematics and its Applications	ite of Evening		M7	£180	36
Membership of the British Computer Society	Evening		M8	£310	37
Wholetime Technician Courses / Cursaí Lánaimse	earacha do Theicneoirí				
Diploma in Bakery Production and Management †	Wholetime	DT 200	WBT	£530*	38
Diploma in Computer Science †	Wholetime	DT 266	WMT	£530*	39
Technician Diploma in Applied Science (Biology, Chemistry, Physics) †	Wholetime	DT 273	WAS	£530*	41
Technician Diploma in Dental Technology †	Wholetime	DT 276	WASDT	£530*	43
Technician Diploma in Photography †	Wholetime	DT 278	WASPH	£530*	44
Part-time & Evening Technician Courses / Cúrsaí	Páirtaimsearacha & Th	ıráthnóna d	o Theicneoi	rí	
Technician Certificate in Applied Science (Biology, Chemistry)	Part-time		PAS		47
Technician Diploma in Applied Science (Biology, Chemistry)	Part-time		PAS 5 & 6	£235	48
Certificate in Optical Dispensing	Part-time		PSTO	£370	49
Technician Certificate in Medical Physics & Physiol Measurement	ogical Evening		PBE	£235	50

^{* †} see page 7

		CAO/CAS Ref.	College Ref.	Fee/ Táille	Page/ Leath.
Other Science and Mathematics Based Courses / Cúrsaí eile le bunús san Eolaíocht & Mhatamaitic					
Certificate in Professional Photography	Part-time		PSP		51
Certificate in Sciences for Nurses	Block-Release		PSN		52
Course in Plastics	Evening		PCP		54
Course for the Associateship of the Institute of Brewing	Evening		PBA		55
Course for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons	Evening		S9	£145	56
Course for the Institute of Meat	Evening		S11		57
Course in Medical Records Administration	Evening		S12	£145	58
Course in Mathematics for Engineering	Evening		Ml	£145	59
Course in Mathematics for Telecommunications	Evening		M2	£145	60
Course in Computing for the Electrical Contracting					
Industry	Evening		M3	£145	61
Course in Mathematics on a Microcomputer	Evening		M5		62
Course in Cobol Programming	Evening		M9	£145	63
Course in Computing for Engineering	Evening		M10		64
Bakery Practice	Part-time		PSB		65
Confectionery Decoration Intermediate	Evening		B1.2	£145	66
Confectionery Decoration Advanced	Evening		B1.3	£145	66

Courses in Engineering

Cúrsaí san Innealtóireacht					
		CAO/CAS	TO A COLUMN TO THE REAL PROPERTY.	Fee/	Page
		Ref.	Ref.	Táille	Leath
Wholetime Degree & Professional Courses / Cúrsaí Céime	& Proifisiúnta	Lánaimsea	racha		
Honours Diploma in Electrical/Electronic Engineering BSc(Eng)	Wholetime	FT21 DT 221	SEE	£995*	67
Course for the Engineering Council Part II Examination	Wholetime		WCE		69
Part-time Professional Courses / Cúrsaí Proifisiúnta Páirtain	nsearacha				
Course for the Engineering Council Part I Examination	Evening		EE1	£290	70
Course for the Engineering Council Part II Examination	Evening		EE2	£290	71
Wholetime Technician Engineering and Technician Courses Cúrsaí Lánaimsearacha do Theicneoirí-innealtóireachta agus		oirí			
Technician Engineering Diploma - Electrical Engineering †	Wholetime	DT 231	WEET	£530*	73
Technician Engineering Diploma (Avionics) †	Wholetime	DT 285	WRAL	£530*	74
Technician Engineering Diploma - Telecommunications and Electronics †	Wholetime	DT 286	WRTT	£530*	77
Technician Diploma in Electronic Engineering †	Wholetime	DT 288	WRS	£530*	79
Technician Certificate in Electronics †	Wholetime	DT 289	WRCE	£505*	80
Part-time and Evening Technician Courses / Cúrsaí Páirtain	nsearacha & ?	Fhráthnóna	do Theicr	eoirí	
Electrical Technicians' Certificate	Part-time		PET		81
Electronic Servicing	Part-time		PRM		82
Electronic Equipment Maintenance	Evening		R1	£145	84
Telecommunications Technicians	Evening		R6	£145	85
Industrial Electronics for Electricians	Evening		R7	£145	86
Digital Electronics and Microprocessors	Evening		R8	£145	87
Electrical Technicians	Evening		ET	£145	88

^{* †} see page 7

Language Courses

Cúrsaí san Teangeolaíocht					
Outour remperations		CAO/CAS Ref.	College Ref.	Fee/ Táille	Page/ Leath.
Certificate/Diploma in Languages and Business	Wholetime	DT 255	WLBS	£530*	89
Post-Graduate Diploma in Applied Linguistics	Evening		PLAL		90
Diploma in Translation	Evening		PDT		91
Modern Languages (Practical Use)	Evening		PCLL		92
Modern Languages for Specialist Purposes	Evening		PCLS		93

Courses organised by the Department of Electrical Installation for Electrical Apprentices, Craftspersons and Draughtspersons

Cúrsaí Eagraithe ag an Roinn Insteallabhú Leictreach do Phrintísigh, do Cheardaithe Leictreacha agus do Dhréachtóirí

Electrical and Electronic Draughting †	Wholetime	DT 244	ESED	£470	94
Certificate Course in Electrical Installation Work	Block-Release		SEAS		95
Certificate Course in Electrical Installation Work	Block-Release		PAA		96
Certificate Course in Electrical Installation Work	Block-Release		SESB		97
Certificate Course in Electrical Installation Work	Day-Release		PEI		97
Certificate Course in Electrical Installation Work	Block-Release		BESB		98
Certificate Course in Electrical Installation and Maintenance	Block-Release		SEM		99
Evening Course in Electrical Installation Work	Evening		Tl	£145	100
Craft Based Technician Certificate in Electrical Installation Technology	Evening		T3	£180	101
Evening Course for Updating in Electrical Installation Technology	Evening		T4.1/2	£145	102

^{* †} see page 7

Cúrsaí san Corp Oideachas

NOTE: The fee indicated for all wholetime courses and for all other courses (denoted *) includes the College Summer Examination Fee (where applicable) for Sessional examinations 1992. Fees may be subject to revision without notice. All courses denoted † are funded by the ESF.

College Examination Entry Fee (see note above):

Táille Scrúducháin an Choláiste: £33

Late Registration Fee:

Táille Clárú Dhéanach: £33

Tuition Fees for Overseas Students

(non-EC Countries):

Táille Teagaisc do Mhic-Leinn Eachtracha

(leasmuigh den gComhphobal Eorpach): £2,200

Post-Graduate Studies

Stadéir Iar-Cheimeacha		CAO/CAS Ref.	College Ref.	Fee/ Táille	Page/ Leath.
Doctor in Philosophy & Master in Science Degrees Wholeting	me & Part-time				108
Fellowship of the Institute of Medical Laboratory Sciences Part 1	Block-Release		S10.1	£235*	109
Fellowship of the Institute of Medical Laboratory Sciences Part 2	Block-Release		S10.2	£525	110



Graduates of the BSc(Human Nutrition and Dietetics) being conferred with their parchments at the Ceremony in Trinity College Dublin.

(Photograph by Veronica Nicholson).

CÉIMEANNA Ó OLLSCOIL BHAILE ÁTHA CLIATH

As a result of the Partnership Agreement between the University of Dublin and the City of Dublin Vocational Education Committee, professional degrees are awarded by the University of Dublin to students graduating from certain recognised courses in the Colleges of the DUBLIN INSTITUTE OF TECHNOLOGY. A fee is payable to the University of Dublin by those who present themselves for the degree award.

The following courses taught in this College are covered by the above mentioned agreement:

A. (i) Honours Diploma in Electrical/ Electronic Engineering (Ref: DT 221 and FT21) (Three Specialist Options)

Graduates of this course with the specialist options shown below are eligible for the award of BSc(Eng) from the University of Dublin with the same honours classification as obtained in their Diploma;

Electrical Power Control Systems Electronics, Communication and Computers

(ii) Diploma in Applied Sciences (Ref: DT 222 and FT22) (Six Programmes)

Graduates of these six programmes are

eligible for the award of BSc(Applied Sciences) from the University of Dublin with the same honours classification as obtained in their Diploma;

Chemistry and Physics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science and Physics
Food Science and Food Technology

(iii) Diploma in Biomedical Sciences (Ref: DT 215) (Five Programmes)

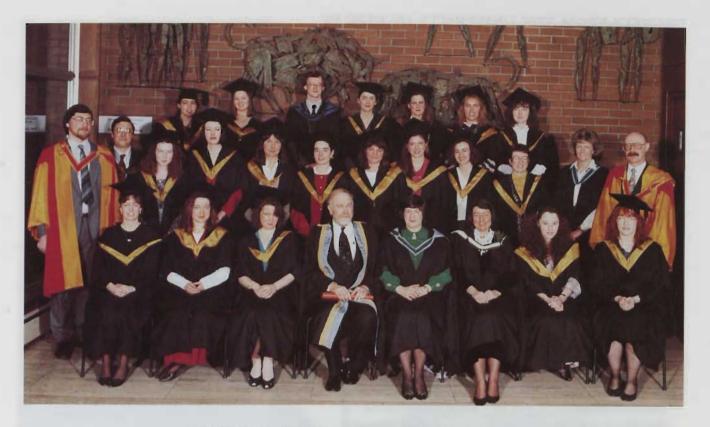
Graduates of these five programmes are eligible for the award of BSc(Applied Sciences) from the University of Dublin with the same honours classification as obtained in their Diploma;

Cellular Pathology
Clinical Chemistry
Clinical Immunology
Haematology/Blood Transfusion
Science
Medical Microbiology

B. The BSc(Human Nutrition and Dietetics) (Ref: DT 223 and FT23) is taught and administered jointly by the Dublin Institute of Technology, Kevin Street and the University of Dublin. Students are registered students of both institutions and on passing the prescribed examinations become graduates of both institutions.

All communication in respect of the award of the above degrees should be addressed to:

The Proctor's Office, West Theatre, Trinity College, Dublin 2.



Graduate Class of 1990 - Human Nutrition and Dietetics

Photographed after the conferring in DIT Kevin Street, Thursday 14th February 1991.

Back Row, left to right: Bernice Corridan (Presentation Convent, Listowel, Co. Kerry), Lucy Walsh (Hamilton High School, Bandon, Co. Cork), Dr. N.P. Kennedy, Department of Medicine, Faculty of Health Sciences, TCD, Ann O'Connor (Comprehensive School, Tarbert, Co. Kerry), Edel Woods (Muckross Park College, Donnybrook, Dublin 4), Aileen Powderly (Scoil Íosa, Kilcock, Co. Kildare), Noreen Roche (Holy Faith Convent, Rosbercon, New Ross, Co. Wexford).

Centre Row, left to right: Dr. Patrick McHale, Lecturer in Medical Microbiology, DIT Kevin Street, Dr. Paul Mathias, Lecturer in Nutrition, DIT Kevin Street, Mary Kearney (Coláiste Bride, Clondalkin, Dublin 22), Sally-Ann McGrath (St. Joseph's College, Lucan, Co. Dublin), Rachel Cahill (Brigidine Convent, Abbeyleix, Co. Laois), Fiona Healy (Mount Saint Michael, Claremorris, Co. Mayo), Eleanor English (Holy Faith Convent, Rosbercon, New Ross, Co. Wexford), Louise Byrne (Loreto Convent, Bray, Co. Wicklow), Gráinne O'Connell (Comprehensive School, Tarbert, Co. Kerry), Mrs. Jennifer Keogh, Lecturer in Dietetics, DIT Kevin Street, Ms. Elizabeth Sweeney, Lecturer in Physiology, DIT Kevin Street, Dr. Louis Armstrong, Lecturer in Biochemistry, DIT Kevin Street.

Front Row, left to right: Carmel O'Hanlon (VEC Whitehall, Dublin 9), Maureen McGowan (Sacred Heart Secondary School, Ballyshannon, Co. Donegal), Fiona McMahon (St. Joseph's Secondary School, Abbeyfeale, Co. Limerick), Mr. Frank Brennan, Principal, DIT Kevin Street, Ms. Brid Ann Ryan, Head, Department of Biological Sciences, DIT Kevin Street, Joint Course Director, Ms. Mary Moloney, Lecturer in Dietetics and Course Tutor, DIT Kevin Street, Sandra Brady (Rockford Manor, Stradbrook, Blackrock, Co. Dublin), Kimberley Sheil (St. Joseph's College, Lucan, Co. Dublin).



A Group from the Graduate Class of 1990 Graduateship of the Royal Society of Chemistry

Back Row, left to right: Josephine McLoughlin (MSc DIT), Declan Murray (Dublin), Anne Coffey (Dublin), Clare O'Leary (MSc DIT), Siobhán Griffith (Dublin), Genevieve McKenna (Secondary Teacher), Rachel McGonagle (Edinburgh).

Front Row, left to right: Dr. Noel R. Russell, Assistant Head, Department of Chemistry, Dr. Eamonn Rothery, Head, Department of Chemistry, Rory Mannion (Galway).

UNDERGRADUATE COURSES

- (a) Wholetime Degree & Professional Courses in Applied Science, Health Science, Food Science, Mathematics and Computing Part-time Professional Courses in Applied Science, Health Science, Food Science, Mathematics and Computing Wholetime Technician Courses in Applied Science, Health Science, Food Science, Mathematics and Computing Part-time and Evening Technician Courses in Applied Science, Health Science, Food Science, Mathematics and Computing Other Science and Mathematics **Based Courses in Applied** Science, Health Science, Food Science, Mathematics and Computing
- (b) Wholetime Degree & Professional Courses in Engineering Part-time Professional Courses in Engineering Wholetime Technician Engineering and Technician Courses in Engineering Part-time and Evening Technician Courses in Engineering
- (c) Language Courses
- (d) Courses organised by the Department of Electrical Installation for Electrical Apprentices, Craftspersons and Draughtspersons
- (e) Courses in Physical Education

DEGREE PROGRAMMES IN MEDICAL LABORATORY SCIENCES

In 1986 the Irish Department of Education have authorised the College to proceed with the establishment of an honours degree programme in Medical Laboratory Sciences. The College now offers a five year integrated course leading to a Diploma in Biomedical Sciences (DIT) and a BSc(Applied Sciences) from the University of Dublin, both with honours classification. Students qualify for the award of Certificate in Medical Laboratory Sciences after three years of the programme.



Photograph shows a group of those who received the Certificate in Medical Laboratory Sciences on November 3rd 1990. These students are now engaged on a further course of two years study which will culminate in the award of a Diploma in Biomedical Sciences (DIT) and a BSc(Applied Sciences) from the University of Dublin.

Back Row, left to right: Susan Shelley, Patrick Costello, Stephen Cullen, John Brady, Maria Phelan, Tracy Murphy, Margaret Quinn, Fiona Corcoran, Anne Marie Donnelly, Valerie Shyne.

Front Row, left to right: Agnes McGonagle, Martina Ring, Mr. Liam Lawlor, Assistant Head, Department of Biological Sciences, Ms. B.A. Ryan, Head, Department of Biological Sciences, Deirdre O'Neill, Mairéad Doyle.

CAS CODE: DT 214 (DT 64 for 1991)

COLLEGE CODE: WML

DURATION:

Three years wholetime, including a one year laboratory placement.

DESCRIPTION OF COURSE:

This course provides education in the appropriate sciences and technologies for those students seeking a career in Laboratory Medicine, Cell Biology and related fields. Students of the course may apply for student membership of the Institute of Medical Laboratory Sciences.

In the third year of the course, students attend a designated hospital laboratory for inservice training. Students are continuously assessed on their performance during this year. The award of a Certificate is dependent on attaining a satisfactory grade in this hospital assessment.

ENTRANCE REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects with Grade C or higher in two subjects on Higher Level papers, one of which must be Chemistry. Subjects passed must include Mathematics, with a minimum of Grade C at Ordinary Level, and English.

or

(b) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum requirements

for the course. Because of the large numbers seeking entry to the courses in Medical Laboratory Sciences a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,

Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Chemistry, Biology, Physics, Mathematics, Technical French/German.

SECOND YEAR:

Biochemistry, Physiology/Immunology, Applied Physics/ Measurement and Instrumentation, Statistics/Computer Science, Medical Laboratory Science, Language (French/ German).

THIRD YEAR:

Hospital inservice training.

AWARD:

Graduates of this course are eligible for the following award:

Certificate in Medical Laboratory
Sciences (Dublin Institute of
Technology) with grades of Pass,
Credit or Distinction as appropriate.

FURTHER STUDY:

Students who obtain the Certificate in Medical Laboratory Sciences are eligible to proceed to the two year fultime course leading to the **Diploma in Biomedical Sciences** (DIT).

CAREER OPPORTUNITIES:

The Certificate is the required qualification for basic grade technician posts in the Medical Laboratory Services. Other areas of employment include Veterinary and Medical Research Laboratories. Career opportunities also exist for Medical Laboratory Scientists in developed and developing countries.

FOR FURTHER INFORMATION:

Mr. Colm P. O'Rourke DipMedLabSc FIMLS,

Department of Biological Sciences. Telephone: 757541 ext. 361 DIT CODE: DT 215 (DT 68 for 1991)

COLLEGE CODE: WBS

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

The course is intended for students who have successfully completed the revised, approved Certificate Courses in Medical Laboratory Sciences at the Dublin Institute of Technology and the Regional Technical Colleges in Cork and Galway. The course is an integrated, advanced programme of study in Biological, Biomedical and Analytical Sciences and Management Studies. In the second year of the course, students choose an option in Medical Laboratory Sciences as their major subject and are also required to undertake and complete a research project.

The specialist programmes are:

Cellular Pathology Clinical Chemistry Clinical Immunology Haematology/Blood Transfusion Science Medical Microbiology

ENTRANCE REQUIREMENTS:

- (a) Certificate in Medical Laboratory Sciences. (This mode of entry applies only to those holding Certificates awarded from 1990 onwards).
- (b) Cognate Degrees, Diplomas and Certificates and other qualifications that the College may deem equivalent.

APPLICATION PROCEDURE:

Applicants should apply to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

CLOSING DATE: 21st June.

COURSE OF STUDY:

FIRST YEAR:

Cell Biology/Molecular Genetics, Applied Immunology, Medical Sciences (Pathology, Epidemiology, Pharmacology), Biochemistry, Analytical Sciences/Measurement and Instrumentation, Management Studies.

SECOND YEAR:

Analytical Science, Medical Sciences (Biological Basis of Disease), Management Studies.

Specialist Option: the student selects one of the following: — Cellular Pathology, Clinical Chemistry, Clinical Immunology, Haematology/Blood Transfusion Science, Medical Microbiology.

All students undertake a project.

FURTHER STUDY:

The Diploma in Biomedical Sciences is a requirement for entry to the Fellowship Courses of the Institute of Medical Laboratory Sciences.

AWARDS:

Graduates of this course are eligible for the following awards: Diploma in Biomedical Sciences (Dublin Institute of Technology) with grades of Pass, Second Class Honours or First Class Honours as appropriate and

BSc (Applied Sciences) from the University of Dublin with the same honours classification.

The Diploma is recognised by the Institute of Medical Laboratory Sciences (London) as satisfying the requirements for the award of:

Associateship of the Institute of Medical Laboratory Sciences (AIMLS).

CAREER OPPORTUNITIES:

Holders of the Diploma in Biomedical Sciences are eligible to apply for positions in the Medical Laboratory services in this country.

Good career prospects exist in Diagnostic Laboratory services in the European Community, the USA, Australia, the Middle East and Africa. Other career opportunities occur in Medical Research, Veterinary Medicine, Diagnostics marketing, Biotechnology and Pharmaceuticals.

FOR FURTHER INFORMATION:

Mr. J. Vaughan DipMedLabSc FIMLS Department of Biological Sciences, Telephone 757541 ext. 361 DIT CODE: DT 213 (DT 67 for 1991)

COLLEGE CODE: WSFS

DURATION:

One year wholetime.

It is also possible to prepare for this qualification by three years of part-time study by taking courses S6.1 and S6.2 followed by S6.3.

DESCRIPTION OF COURSE:

This course is designed to assist candidates prepare for the Graduate Diploma in Food Science and Technology. The standard sought in this examination by the Institute of Food Science and Technology (UK) is equivalent to an Honours Degree.

QUALIFICATIONS FOR ADMISSION:

BSc or equivalent.

GRANTS AND SCHOLARSHIPS:

The Department of Education has recognised this qualification as leading to an honours degree in Food Science and Technology for the purposes of Grant and Scholarship holders. Suitable students may thus transfer from other courses and other third level Colleges and continue to hold their Grants and Scholarships.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

13th September

COURSE AIM:

On completion of the course, candidates will have a good knowledge of the following areas:-

- (a) The composition, structure, chemical and biochemical reactions of food.
- (b) The interaction of micro-organisms with foods.
- (c) The basic principles of human nutrition and their relevance to food supply.
- (d) The means by which foods are processed, preserved and stored, and the effect of such treatment on the qualities of foods.

COURSE OF STUDY:

1 Chemistry, Biochemistry and Properties of Foods

- (a) The components of food.
- (b) Chemical interactions in foods.
- (c) Food analysis.
- (d) Main classes of raw materials.

2 Microbiology

- (a) General microbiology.
- (b) Fresh Foods.
- (c) Food processing and processed foods.
- (d) Food-borne disease of microbiological origin.
- (e) Food factories and the distribution chain.
- (f) Methods of assessing microbiological quality of foods and food processing plant.

3 Human Nutrition

- (a) General introduction.
- (b) Main classes of substances of dietary value.
- (c) Assessment of diets.
- (d) Further aspects of the influence of diet on health.
- (e) Processing and nutrient content.

4 Principles of the Production and Distribution of Food

- (a) Processes of the food industry.
- (b) Food processing as an integral operation.
- (c) Packaging.
- (d) Food Storage and distribution.
- (e) An outline of ancillary aspects of the food process.

AWARD:

The Graduate Diploma in Food Science and Technology of the Institute of Food Science and Technology of the UK.

CAREER OPPORTUNITIES:

Graduates of this course would expect to obtain employment as professional food technologists within the food industry in research, development or quality control, or proceed to postgraduate studies leading to MSc and PhD qualifications.

FOR FURTHER INFORMATION:

Mr. John J. McEvoy BSc BA BD BSc(Econ) AIFSTI,
Department of Biological Sciences,
Dublin Institute of Technology,
Kevin Street, Dublin 8.
Telephone: 757541 ext. 230 DIT CODE: DT 219

COLLEGE CODE: WSIB

DURATION:

One year. This course can also be followed over 2 years of part-time study (see course code PSIB).

DESCRIPTION OF COURSE:

Graduateship of the Institute of Biology is equivalent to a good honours degree qualification and is universally recognised as such by Industry, Academic Institutions and Departments of Education. Second level teachers having this qualification qualify for the honours degree allowance.

ENTRANCE REQUIREMENTS:

A pass in the Part I Examination of the Institute of Biology or an Appropriate BSc(General) Degree, Fellowship of the Institute of Medical Laboratory Sciences, or a quality pass in the Technician Diploma in Applied Science (Biology) from DIT Kevin Street.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE: 31st August

COURSE OF STUDY:

The topics covered include: analytical methodology, metabolism and

metabolic regulation, cell biology, immunology, molecular genetics and computer methods. A laboratory course to supplement the lectures is also included.

The latter half of the course takes a more applied approach, and builds on the knowledge of the student. Subject areas covered include: Applied Aspects of Microbial and Plant Biochemistry, an Introduction to Biotechnological Engineering, Commercial Aspects of Enzyme and Animal Products, Applications of Cell Biology, Genetic Engineering and Radioisotopes.

Also included in Part II of the course is the project which is an independent investigation which should take some 70 hours of course time. The investigation should be planned to give a definite answer at the end of the investigation. The project is carried out under the supervision of a member of staff. The report of the project should consist of an abstract of about 300 words and the report should normally be between 5,000 and 7,000 words, excluding figures, tables and bibliography.

EXAMINATIONS:

Part II of the Graduateship of the Institute of Biology Examination consists of four papers in Biochemistry, the Project and Assessment Components. An oral examination, carried out by Members of the Institute is also included.

AWARD:

Graduateship Diploma of the Institute of Biology with grades of First Class

Honours, Second Class Honours, Third Class Honours or Pass as appropriate.

CAREER OPPORTUNITIES:

Honours graduates from this course may proceed to post-graduate studies leading to the award of MSc or PhD; they may also apply for graduate biochemist positions in the hospital services and in industry and Semi-State organisations.

FOR FURTHER INFORMATION:

Dr. Louis M. Armstrong, Department of Biological Sciences. Telephone: 757541 ext. 320 COLLEGE CODE: DT 222 (WSAD)

CAO CODE: FT 22

DURATION:

Four years wholetime for all programmes with the exception of Food Science and Food Technology which is four and a half years.

DESCRIPTION OF COURSE:

Six four-year wholetime programmes are offered for the Diploma in Applied Sciences. This course has been designed to cover those areas of Chemistry, Mathematics, Physics, Computer Science and Food Science and Technology which will be of the widest application in Industry. This course in combined applied sciences provides for great flexibility in the fields in which graduates may usefully be employed. There is considerable emphasis in the course on practical and applied work. The Diploma will be awarded in terms of one of six possible scientific and technological options studied for the final year of the course as follows:

Chemistry and Physics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science and Physics
Food Science and Food Technology

In the final year a research/ development project is undertaken by each student in one of the subjects in the option they have chosen. In the past a number of these projects have led to postgraduate research while others have led to products with commercial potential.

MINIMUM ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects including Mathematics and English, with grade C or higher in two subjects on higher level papers, one of which must be Mathematics, Applied Mathematics, Physics, Chemistry, Physics with Chemistry, Biology, Agricultural Science, Engineering or Technical Drawing and at least Grade B in Ordinary Level Mathematics.

or

(b) such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

The number taking Computer Science in Year 1 will be limited to fifty. If the demand exceeds fifty, the order of offers from the CAO will determine priority.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS application form to:

CAO/CAS, Tower House, Eglinton Street, Galway. CLOSING DATE: 1st February.

COURSE OF STUDY:

FIRST YEAR:

Students will study five of the six subjects listed below. Students may choose between Chemistry and Computer Science.

Chemistry – Inorganic Chemistry, Physical Chemistry, Organic Chemistry.

Mathematics - Calculus and Linear Algebra, Computing, Mechanics.

Physics – Electricity and Magnetism, Thermal and Mechanical Properties of Matter, Mechanics, Modern Physics, Geometrical Optics, Vibrations and Waves, Physical Optics.

Computer Science – Introduction to Computer Science, Programming.

Management Studies.

Language - French or German.

SECOND YEAR:

In the second year students take one of the following programmes and continue their study of Management Studies and Language:

Chemistry, Physics and Ancillary
Mathematics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science, Physics and
Ancillary Mathematics

Chemistry – Analytical Chemistry, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Industrial Chemistry.

Mathematics – Linear Algebra, Numerical Analysis, Statistics 1 & 2, Analysis, Differential Equations.

Physics – Circuit Theory, Physical Electronics, Electromagnetic Theory, Mechanics, Quantum Physics and Relativity, Wave Theory, Geometrical and Physical Optics, Thermodynamics, Kinetic Theory, Workshop Practice.

Computer Science – Advanced Programming, Algorithms and Data Structures, Operating Systems, Computer Architecture and Assembly Language Programming.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language - French or German.

THIRD YEAR:

Initially the number taking Food Science and Technology in Year 3 may be limited. The order of priority will be established by the class ranking at the Summer Examinations at the end of Year 2.

In the third year, students take one of the following programmes and continue their study of Management Studies and Language: Chemistry, Physics and Ancillary Mathematics

Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science, Physics and
Ancillary Mathematics
Food Science and Technology and
Chemistry

Chemistry – Applied Physical Chemistry, Analytical Chemistry, Applied Inorganic Chemistry, Applied Organic Chemistry. Unit operations: Solvent extraction, Distillation, Drying.

Mathematics – Mathematical Methods of Classical Mechanics, Mathematical Methods for Quantum Science, Numerical Analysis, Complex Analysis, Algebraic Structures and Metric and Topological Spaces.

Physics – Atomic and Nuclear Physics, Solid State Physics, Electromagnetism and Applied Optics, Electronics, Microprocessors, Topics from Applied Biophysics.

Computer Science – Data Transmission, Information Systems, Systems Programming, Systems Analysis and Design.

Food Science and Technology – Biochemistry, Biology, Microbiology.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language - French or German.

FOURTH YEAR:

Students take one of the following programmes in the fourth year:

Chemistry and Physics Chemistry and Mathematics Mathematics and Physics Mathematics and Computer Science Computer Science and Physics Food Science and Food Technology

Chemistry – Applied Organic Chemistry, Applied Physical Chemistry, Applied Inorganic Chemistry. Unit operations: Reactor Design, Filtration Size Reduction, Heat and Mass Transfer.

Mathematics – Ordinary Differential Equations, Boundary Value Problems, Operator Theory for Quantum Science, Linear Programming, Applied Mathematics for the Physical Sciences, Mathematical Statistics or Applied Statistics/O.R. and Numerical Analysis. Students take the first four subjects and one of the last four options. Only one of the subjects Mathematical Statistics and Applied Statistics will be available in any one year.

Physics – Solid State Physics,
Thermodynamics and Statistical
Physics, Electrical and Electronic
Instrumentation, Modern Applied
Optics, Radiation and Nuclear Physics,
Acoustics, Lasers, Optoelectronics and
Applied Holography, Topics from
Applied Biophysics.
Students take the first four subjects
and two of the last four subjects. All
combinations of the latter will not

necessarily be offered in any given year.

Computer Science – Digital Electronics, OR and Simulation, Computational Theory, Formal Specifications, Data Transmission, Artificial Intelligence, Graphics.

Food Science and Food Technology – Food Chemistry, Processing and Distribution of Food, Food Microbiology, Nutrition, Applied Nutrition.

Project – all students will undertake and complete a Project.

AWARDS:

Graduates of this course are eligible for the following awards:

Diploma in Applied Sciences (Dublin Institute of Technology) with grades of Pass, Second Class Honours or First Class Honours as appropriate and

BSc (Applied Sciences) (University of Dublin) with the same honours classification.

The Institute of Physics has recognised the qualifications of graduates who have taken the Mathematics and Physics or the Chemistry and Physics programmes as satisfying the academic requirements for Corporate Membership of the Institute, the former being allocated to Schedule A under the Institute Schedule of Recognised Qualifications and the latter to Schedule B(1).

CAREER OPPORTUNITIES:

The main thrust of the course is towards industrial and commercial applications of the various sciences. The graduates of the course are uniquely qualified for employment in a wide range of industries and also for postgraduate research. In the past, graduates have gone on to postgraduate work here in Ireland and abroad; in France, Germany, Canada and the United States. Some have gone into the food and computer industries while others have gone into the public service, hospitals, electricity supply and telecommunications. Some have embarked on careers in education.

FOR FURTHER INFORMATION:

Dr. D.C. Hickey, Department of Physics. Telephone: 757541 ext. 336 COLLEGE CODE: DT 223 (WBD)

CAO CODE: FT 23

DURATION:

Four and a half years wholetime

DESCRIPTION OF COURSE:

This Degree Course is run jointly by the Dublin Institute of Technology (College of Technology, Kevin Street) and the University of Dublin (Trinity College).

The course is designed to provide an integrated training in the science of nutrition and dietetics and its application to human health and well being both at the individual and community level. This includes six months hospital internship and also a period of practical Catering Administration and Management. At present there are insufficient training places available in Ireland and it may be necessary that some students travel to Britain for this component of the course. Students are responsible for their own upkeep during these training periods since they are unpaid.

MINIMUM ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects with Grade C or higher in three subjects on higher level papers, one of which must be Chemistry. Subjects must include Mathematics and English at either level

or

(b) such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the very large numbers seeking entry a minimum of Grade C or higher on five higher level papers will be required in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS application form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE: 1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Physics, Chemistry, Biology, Food Science, Communication Studies, Technical French.

SECOND YEAR:

Biochemistry, Physiology, Nutrition, Dietetics, Medicine, Catering Administration, Microbiology, Statistics and Computation, Communication Studies, Technical French.

THIRD YEAR:

Biochemistry, Nutrition, Dietetics, Medicine, Clinical Studies, Food Science, Microbiology, Computer Science, Communication Studies and Management Studies.

FOURTH YEAR:

Nutrition, Dietetics, Communication

Studies, Management Studies and a Project.

AWARDS:

Graduates are eligible for the following awards:

Diploma in Human Nutrition and Dietetics (Dublin Institute of Technology) with grades of Pass, Second Class Honours and First Class Honours as appropriate.

and

BSc (Human Nutrition and Dietetics) (University of Dublin) with the same honours classification.

CAREER OPPORTUNITIES:

Nutrition as science is a relatively young discipline. The scientific study of nutrition was not possible until the development of the chemical, physical and biological sciences throughout the 19th century. These foundations have been consolidated and new fields investigated.

The application of this scientific knowledge for the improvement of health and the prevention of disease requires an understanding of many factors. A career in nutrition or dietetics may appeal to those who are interested in nutrition, have an aptitude for science and for work in medical, social or scientific fields. Graduates from this course are equipped to find employment in many different spheres of nutritional work. In this country, at present, the majority of posts held by graduates are

in the Hospital Service in clinical dietetics.

Other areas where posts are slowly becoming available in which graduates have obtained employment include: Public Health or Community Nutrition, Preventative Medicine and Health Education, and in research in the Food and Pharmaceutical Industries.

FOR FURTHER INFORMATION:

Ms. Mary Moloney, DipDiet MSc MINDI Department of Biological Sciences. Telephone: 757541 ext. 314

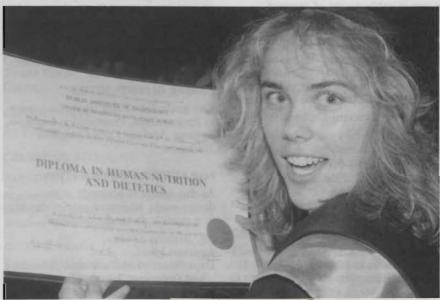


Below left:

The Fourth Annual Old Folks Christmas Party was held on the 14th December, 1990 in the Gleeson Hall. The College hosted 277 old people from the local area and the photograph shows Mr. Joseph McCartan, Iveagh Hostel, entertaining the Lord Mayor, Cllr. Michael Donnelly, with the 'bones'. This event was organised by both staff and students from the St. Vincent de Paul Society and was thoroughly enjoyed by everyone!

Below:

Aileen Powderly, pictured with her Diploma in Human Nutrition and Dietetics after the Conferring in DIT Kevin Street on 14th February 1991.



DIT CODE: DT 226

COLLEGE CODE: WCS

DURATION:

The College is giving consideration to the establishment of an Honours Diploma in Computer Science which may be taken in one year wholetime.

DESCRIPTION OF COURSE:

The Honours Diploma in Computer Science is proposed for graduates of the (Technician) Diploma in Computer Science course who wish to further their computing education. The course aims to increase the student's depth of knowledge and to prepare him/her for a considerable degree of personal responsibility, both in the organisation, planning and execution of his/her work as a Computer Scientist and in the supervision of others. The course will be taken as a one-year wholetime course.

ENTRY REQUIREMENTS:

(a) The (Technician) Diploma in Computer Science

or

(b) success in the Part I Examination for membership of the British Computer Society.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8. **CLOSING DATE:** 31st August

COURSE OF STUDY:

Software Engineering, Microprocessing, Information Technology, Networks.

AWARD:

Students who have achieved a pass in all required subjects of the course will be eligible for the Honours Diploma in Computer Science. The classification of the award made will be based on the combined total of points accumulated from the subjects undertaken.

Students of this course may be eligible for the award of:

Honours Diploma in Computer Science (Dublin Institute of Technology) with classification as appropriate, and it is anticipated that the successful candidate will be eligible for the award of an Honours Degree in Computer Science.

CAREER OPPORTUNITIES:

The graduates of this course may work as Programmers, Programmer-Analysists, Systems Analysists and Computer Managers.

FOR FURTHER INFORMATION:

As this course is presently at the design stage, interested parties should first consult the undermentioned.

Dr. Brendan O'Shea,
Assistant Head,
Department of Mathematics, Statistics and Computer Science.
Telephone 757541 ext. 221

CAS CODE: DT 272 (DT 65 for 1991)

COLLEGE CODE: WSO

DURATION:

Four years wholetime

DESCRIPTION OF COURSE:

This is a course leading to a Diploma in Ophthalmic Optics and provides the education and training statutorily required for entrants to the profession by the Opticians Act, 1956, and the Rules made thereunder.

The course is approved by Bord na Radharcmhastóirí (the Opticians Board) which is the Registration Authority set up under the Act.

Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Optometrists, Ireland, on their clinical competence, before registering with Bord na Radharcmhastóirí.

The period of supervised practice, taken after the successful completion of the third year of the course, is of particular value in developing the practical clinical skills of the students, who are placed by the College in optometric practices.

On return to the College for the completion of this final year, students are assigned an investigative project which helps to relate some of the theoretical aspects of the course to the clinical skills required.

ENTRANCE REQUIREMENTS:

Minimum Requirements:

(a) Irish Leaving Certificate in six subjects with Grade C or higher in at least two higher level papers; subjects must include Mathematics and English at either level.

or

(b) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

Central Application Office, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Chemistry, Physics, Biology, Technical German, Management Studies, Introduction to Optometry.

SECOND YEAR:

Statistical Methods, Anatomy and Physiology, Biochemistry, Geometrical and Physical Optics, Optical Dispensing, Visual Optics, Technical German, Business Studies.

THIRD YEAR:

Optometry, Visual Optics & Instruments, Contact Lenses, Optical Dispensing, Technical German, Abnormal Systemic and Ocular Conditions, Physiology of Vision, Law and Ethics, Binocular Vision, Business Studies.

FOURTH YEAR:

Six months supervised practice followed by a return to College for: Advanced Contact Lenses, Advanced Optometry, Ocular Pharmacology, Environmental Optics, Technical German, Business Studies, Project.

AWARDS:

Graduates of the Course are eligible for the following awards:

Diploma in Ophthalmic Optics (Dublin Institute of Technology), with the grades of Pass, Second Class Honours or First Class Honours as appropriate.

Graduates who have passed the examination of the Association of Optometrists, Ireland, may, if elected to Membership, be awarded the:

Fellowship of the Association of Optometrists, Ireland (FAOI).

CAREER OPPORTUNITIES:

The majority of Optometrists are in individual private practice. Some are in partnership with colleagues and a few find employment in the larger practices. Their primary purpose is the examination and assessment of the visual function and advising and prescribing for visual defects.

Practitioners may also choose to specialise in the fields of contact lenses, environmental vision or the care of the partially sighted. Some opportunities exist for clinical and academic research.

FOR FURTHER INFORMATION:

Dr. P.A. Davison, BSc MSc PhD FBCO Department of Physics. Telephone 757541 ext. 235



The R.J. Wiltshire Medal

The second R.J. Wiltshire Medal was awarded to Mrs. Jacqueline O'Brien of Ballydoyle, Cashel, Co. Tipperary.

The presentation was made by Mr. Ricky Stevens, President of the Irish Professional Photographers Association, President of the Federation of European Photographers and Secretary General of the World Council of Professional Photographers.

The medal, which is awarded to the student gaining the highest marks in the final year photography examinations, was instituted by the IPPA to honour a former President of the Association, Reginald J. Wiltshire, who played an active part in founding the Course in Professional Photography at DIT Kevin Street.

The specially struck medal is a replica of that presented in 1858 to Mary, Countess of Rosse, by the Photographic Society of Ireland.

DIT CODE: DT 279

COLLEGE CODE: WSPH

DURATION:

The College is giving consideration to the establishment of a Professional Diploma in Photography which may be taken in one year wholetime, or parttime on a modular basis.

DESCRIPTION OF COURSE:

The Professional Diploma in Photography is proposed for graduates of the Technician Diploma in Photography course who wish to further their photographic education. The course aims to increase the student's depth of knowledge and to prepare him/her for a considerable degree of personal responsibility, both in the organisation, planning and execution of his/her work as a photographer and in the supervision of others.

This course, which will be modular in basis, may be taken as a one year wholetime course. Alternatively, the course may be taken on a part-time modular basis by students in employment. This allows students to undertake the course at their own pace over a longer period.

ENTRANCE REQUIREMENTS:

(a) The Technician Diploma in Photography, with a good quality result

or

(b) A qualification deemed by the College to be equivalent.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

31st August

COURSE OF STUDY:

Photography Theory, Photography Practical, Visual Studies, Law, Communications.

AWARD:

Students who have achieved a pass in all required modules of the course will be eligible for the award of Diploma in Photography. The classification of the award made will be based on the combined total of points accumulated from the modules undertaken.

Students of this course may be eligible for the award of: **Diploma in Photography** (Dublin Institute of Technology) with classification as appropriate.

CAREER OPPORTUNITIES:

It is expected that graduates may work as photographers in photography practices, large commercial companies or institutions. It is anticipated that many may also form their own practices.

FOR FURTHER INFORMATION:

As this course is presently at the design stage, interested parties should first consult the undermentioned.

Mr. David H. Davison AIPPA,

Mr. David H. Davison AIPPA Photography Section, Department of Physics. Telephone 757541 ext. 248 DIT CODE: DT 299

COLLEGE CODE: WSIC

DURATION:

One year. This course can also be followed over two years part-time study (see course code PSIC).

DESCRIPTION OF COURSE:

Graduateship of the Royal Society of Chemistry is equivalent to a good honours degree qualification and is universally recognised as such by Industry, Academic Institutions and Departments of Education. Second level teachers having this qualification qualify for the honours degree allowance.

ENTRY REQUIREMENTS:

Entry to the course is subject to the approval of the Royal Society of Chemistry. The requirement is GRSC (Part I) or equivalent. Usually a BSc(Pass), BSc(Gen) or Technician Diploma in Applied Science (DIT) with Chemistry as a final year subject is acceptable.

For details of GRSC (Part I) see code PSIC.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE: 1st September.

COURSE OF STUDY:

The curriculum is divided into four main areas: Inorganic, Organic, Physical and Applied Chemistry. Final assessment is based on an examination comprising a paper in each of these areas and on continuous assessment of practical work projects, problem solving and communication skills. The course work is monitored internally under the GRSC Group Scheme and externally by External Examiners appointed by the Royal Society of Chemistry.

AIM OF COURSE:

To produce professionally qualified chemists who will pursue careers in Industry, the teaching profession or full-time research for MSc and PhD qualifications.

CAREER OPPORTUNITIES:

Graduates would expect to obtain responsible positions within the very wide ranging Chemical Industry e.g. Plastics, Adhesives, Pharmaceuticals, Brewing. Graduates have followed research careers in the field of Chemistry.

FOR FURTHER INFORMATION:

Dr. N.R. Russell, Department of Chemistry. Telephone 757541 ext. 220



Christopher Smith being presented with the Association of Physics Technicians Prize for the best final-year project in the Technician Diploma Course in Applied Science (Physics Option) by Ms. Lorraine Currivan, Chairperson of the Association.

COLLEGE CODE: PBD

DURATION:

One year part-time

DESCRIPTION OF COURSE:

The College and the University of Dublin are presently giving consideration to providing a part-time course over one calendar year which will enable holders of the Diploma in Dietetics to graduate with

Diploma in Human Nutrition and Dietetics (DIT) BSc (Human Nutrition and Dietetics) (University of Dublin)

The course will concentrate on those aspects of the present curriculum for the BSc(Human Nutrition and Dietetics) which were not previously taken by the Diploma in Dietetics holders.

CLOSING DATE:

Intending candidates should signify their intention to join before 1st September 1991.

FOR FURTHER INFORMATION:

Ms. Mary Moloney DipDiet MSc MINDI, Department of Biological Sciences, Telephone 757541



Flora Nutrition Award Presentation

At a function at the Westbury Hotel on the 7th March, 1991 the Flora Nutrition Award for 1990 was presented to Mary Gertrude Kearney by the Minister for Education, Mrs. Mary O'Rourke TD. Mrs. O'Rourke paid tribute to W. & C. McDonnell and its Managing Director, Mr. Jim Rice and Marketing Manager, Ms. Jean Callanan for their foresight in funding Nutrition and Dietetics Research. The Award is made annually and it is made with the objective of funding the recipient in post-graduate research in the field of Human Nutrition and Dietetics.

The photograph shows, from left to right: Ms. Jennifer Keogh, Lecturer in Human Nutrition and Dietetics, Department of Biological Sciences, DIT Kevin Street, Ms. Mary Gertrude Kearney, 1990 Winner, Mrs. Mary O'Rourke TD, Minister for Education, Ms. Mary Moloney, Lecturer in Dietetics and Course Tutor to the BSc (Human Nutrition and Dietetics) Course, Ms. Brid Ann Ryan, Head, Department of Biological Sciences, DIT Kevin Street.

COLLEGE CODE: PSIB

DURATION:

Three years, one afternoon and two evenings per week.

DESCRIPTION OF COURSE:

This is a three year part-time course leading to the Graduateship of the Institute of Biology Part II Examination. An honours grading in the Graduateship Examination of the Institute of Biology is recognised by Industry, Academic Institutions and the Irish Department of Education as being equivalent to an Honours Degree.

ENTRANCE REQUIREMENTS:

PART I:

An approved Diploma in Biology, Chemistry, Medical Laboratory Sciences or Food Technology. A suitable BSc(General) Degree may be considered for exemptions from the Part I course.

PART II:

A pass in the Part I Examination of the Institute of Biology or an appropriate BSc(General) Degree, Fellowship of the Institute of Medical Laboratory Sciences or a quality pass in the Technician Diploma in Applied Science (Biology) from DIT Kevin Street.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE:

19th September

COURSE OF STUDY:

The course consists of two parts: -

PART I:

Comprises the first year during which two thirds of the time is given to Principles of Biology. This syllabus, written by the Institute and examined by the College is a broad review of Biology, covering General Principles, Energetics, Physiology of animals and plants, Genetics, Environmental Biology and Statistics. The aim throughout is to encourage the student to read widely and to recognise that Biology is a quantitative science.

The remaining time during the first year is used to study enzymes and the structural aspects of carbohydrates, lipids, nucleic acids and proteins.

PART II:

Comprises the second and third years of the course. During the second year, the topics covered include, analytical methodology, metabolism and metabolic regulation, cell biology, immunology, molecular genetics and computer methods. A laboratory course to supplement the lectures is also included.

The final year of the course takes a more applied approach, and builds on the knowledge of the previous two years. Subject areas covered include, Applied Aspects of Microbial and Plant Biochemistry, an Introduction to

Biotechnological Engineering, Commercial Aspects of Enzyme and Animal Products, Applications of Cell Biology, Genetic Engineering and Radioisotopes.

Also included in the Part II of the course is the project which is an independent investigation which should take some 70 hours of course time. The investigation should be planned to give a definite answer at the end of the investigation. The project is carried out under the supervision of a member of staff, and if performed at the student's place of work, a supervisor at the place of work is also required who will certify that the project is not simply part of the student's normal daily work. The report of the project should consist of an abstract of about 300 words and the report should normally be between 5,000 and 7,000 words, excluding figures, tables and bibliography.

EXAMINATIONS:

Part I of the Graduateship of the Institute of Biology Examination taken at the end of the first year, consists of two papers in Principles of Biology and one in Biochemistry. Assessments and essays contribute to the final mark.

Year 2 – College based sessional examinations which will contribute to the assessment component of the final examination, and which will be used to regulate a student's progress into the final year of the course.

Part II of the Graduateship of the Institute of Biology Examination consists of four papers in Biochemistry, the Project and Assessment Components. An oral examination, carried out by Members of the Institute is also included.

AWARD:

Graduateship Diploma of the Institute of Biology with grades of First Class Honours, Second Class Honours, Third Class Honours or Pass as appropriate.

CAREER OPPORTUNITIES:

Honours graduates from this course may proceed to postgraduate studies leading to the award of MSc or PhD, they may also apply for graduate biochemist positions in the hospital services and in industry and Semi-State organisations.

FOR FURTHER INFORMATION:

Dr. Louis M. Armstrong, Department of Biological Sciences. Telephone: 757541 ext. 320



Participants in a presentation to the IDA by Biology/Food Science and Chemistry Departments at the Dublin Institute of Technology, Kevin Street.

The object of this meeting was to update for the IDA the expertise and experience of the departments in co-operative Research and Development with industrial partners and to build on this with regard to future assistance to identifying companies in the relevant sectors.

Photograph shows, from left to right: Mr. Kieran Taaffe (Vice-Principal), Mr. Noel McCabe (IDA), Mr. Dermot Clohessy (IDA), Mr. Tommy Cooke (Department of Biological Sciences), Mr. John McEvoy (Department of Biological Sciences), Mr. Derek O'Brien (National Bakery School), Dr. Derek Neylan (Department of Biological Sciences), Mr. Tom Scott (Department of Biological Sciences), Ms. Brid Ann Ryan (Head, Department of Biological Sciences), Mr. Joe Vaughan (Department of Biological Sciences), Dr. Noel Russell (Assistant Head, Department of Chemistry), Dr. Marie Keating (Department of Chemistry), Dr. Barry Foley (Department of Chemistry), Dr. Peter Kavanagh (Industrial Liaison Officer, DIT Kevin Street), Mr. Rea O'Neill (Industrial Liaison Officer, Dublin Institute of Technology).

COLLEGE CODE: S6.3

DURATION:

1 year, two evenings per week.

DESCRIPTION OF COURSE:

This course is designed to assist candidates prepare for the Graduate Diploma in Food Science and Technology. The standard sought in this examination by the Institute of Food Science and Technology (UK) is equivalent to an Honours Degree.

QUALIFICATIONS FOR ADMISSION:

Diploma in Food Science from the Dublin Institute of Technology (Ref. S6) or Degree in Food Science or equivalent.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE:

20th September.

COURSE AIM:

On completion of the course, candidates will have a good knowledge of the following areas:

- (a) The composition, structure, chemical and biochemical reactions of food.
- (b) The interaction of micro-organisms with foods.
- (c) The basic principles of human

nutrition and their relevance to food supply.

(d) The means by which foods are processed, preserved and stored, and the effect of such treatment on the qualities of foods.

COURSE OF STUDY:

- (a) Chemistry, Biochemistry and Properties of Foods.
- (b) Microbiology.
- (c) Human Nutrition.
- (d) Principles of the production and distribution of food.
- (a), (b) and (c) are essentially the same as those syllabuses described in the Diploma in Food Science (Ref. S6). During this year, emphasis is placed on integrating the knowledge obtained during the Diploma in Food Science course.

The Principles of the production and distribution of food cover the following main areas:

- (a) Processes of the food industry.
- (b) Food processing as an integral operation.
- (c) Packaging.
- (d) Food storage and distribution.
- (e) An outline of ancillary aspects of the food process.

AWARD:

The Graduate Diploma in Food Science and Technology of the Institute of Food Science and Technology.

CAREER OPPORTUNITIES:

Graduates of this course would expect

to obtain employment as professional food technologists within the food industry; in research, development or quality control, or proceed to postgraduate studies leading to the award of MSc or PhD.

FOR FURTHER INFORMATION:

Mr. John J. McEvoy BSc BA BD BSc(Econ) AIFSTI, Department of Biological Sciences. Telephone: 757541 ext. 230

DURATION:

Two years, two evenings per week.

DESCRIPTION OF COURSE:

A course for science or engineering graduates who require special knowledge of food science. The course is suited to those wishing to make a career in various technical areas within the food industry, e.g. quality control, product development, process control and research.

ENTRANCE REQUIREMENTS:

BSc or equivalent.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE:

20th September

COURSE OF STUDY:

The course deals with the chemistry, microbiology and nutrition appropriate to the food processing industry.

The subjects of the course are:

1 Food Chemistry

- (a) The components of food.
- (b) Chemical interactions in foods.
- (c) Food analysis.
- (d) Main classes of raw materials.

2 Microbiology

- (a) General microbiology.
- (b) Fresh foods.
- (c) Food processing and processed foods.
- (d) Food borne disease of microbiological origin.
- (e) Food factories and the distribution chain.
- (f) Methods of assessing microbiological quality of foods and state of food processing plant.

3 Human Nutrition

- (a) General introduction.
- (b) Main classes of substances of dietary value.
- (c) Assessment of diets.
- (d) Further aspects of the influence of diet on health.
- (e) Processing and nutrient content.

EXAMINATIONS:

All three subjects are examined at the end of each year of the course. At the end of the second year, the two years' work will be examined.

AWARD:

Graduates of this course are eligible for the following award:

Diploma in Food Science (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates from this course would expect to obtain employment within the Food Industry as Senior Technicians and Experimental Officers in research, development or quality control.

FOR FURTHER INFORMATION:

Mr. John J. McEvoy BSc BA BD BSc(Econ) AIFSTI,

Department of Biological Sciences. Telephone: 757541 ext. 230



Mrs. Mary O'Rourke TD, Minister for Education, is presented with a sample of the produce of the National Bakery School by Mr. Derek O'Brien during a recent visit.

COURSE CODE: PSIC

DURATION:

A course over four years, comprising one full day (or two half-days) and two evenings per week.

DESCRIPTION OF COURSE:

Graduateship of the Royal Society of Chemistry is equivalent to a good honours degree qualification in chemistry and is universally recognised as such e.g. it is recognised by the Department of Education for the honours degree allowance for teachers and by universities for entry to PhD research programmes.

ENTRY REQUIREMENTS:

Entry to the course is subject to the approval of the Royal Society of Chemistry. Usually an NCEA certificate obtains entry to the first year, and a general science degree or a Technician Diploma in Applied Science (Chemistry option) gains exemption from Part I.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CURRICULUM:

The first two years of the course lead to Part I and the last two years to Part II.

COURSE OF STUDY:

PART I:

The course comprises organic, inorganic and physical chemistry

lectures together with practical sessions which are to illustrate and, in some cases, expand the lecture material. The practical also emphasises the use of instrumentation in the chemical laboratory.

PART II:

This extends the basic material in the three main branches of chemistry covered in Part I. There is an added topic in Part II, viz. applied chemistry. This comprises chemical engineering, technical economics, history and patents, safety and the study of a large volume and low volume chemical process. Students who have been exempted from Part I are also required to pass a practical examination which is usually taken at the end of the first year of Part II.

A special aspect of Part II is communications, and each student is required to carry out a literature search and write an essay on two topics. The first of these topics also forms the basis of a fifteen minute oral presentation which each student is required to give in the second term of the first year of Part II.

EXAMINATIONS:

Promotion from the first to second year of Parts I and II is subject to satisfactory performance in a College examination. At the end of the second year of Part I students sit three theory papers (Organic, Inorganic and Physical Chemistry) and a practical examination. These examinations are set by the College and assessed by the

Royal Society of Chemistry. Promotion to Part II is subject to passing the theory examinations.

At the end of the second year of Part II the student must pass all four theory papers (Organic, Inorganic, Physical and Applied Chemistry) and have a satisfactory assessment.

AWARD:

Graduate Membership Diploma of the Royal Society of Chemistry.

CAREER OPPORTUNITIES:

The Graduateship is recognised universally as the Professional equivalent to an Honours Degree in Chemistry (EEC Category A qualification). Graduates are uniquely qualified for employment in all sectors of the chemical and allied industries. Graduates are also qualified for entry to Higher Degrees through postgraduate research. Many graduates however are already employed in State and Semi-State Organisations, Private Industries or in Teaching.

FOR FURTHER INFORMATION:

Mr. J.A. Hamill BSc, Department of Chemistry. Telephone: 757541 ext. 324

COLLEGE CODE: PSAP

DURATION:

A course over two years, comprising two afternoons and two evenings per week.

DESCRIPTION OF COURSE:

This Course leads to a Diploma in Applied Physics (with honours classification). It replaces the Graduateship of the Institute of Physics which has been terminated. The Institute of Physics has recognised this course as satisfying the academic requirements for Corporate Membership of the Institute.

ENTRANCE REQUIREMENTS:

Applicants will be required to satisfy an Interview Board regarding their suitability for the course. In general, those who are admitted must possess a BSc(General) in either two or three subjects, one of which must be Physics. or

The Technician Diploma in Applied Science (Physics Option) with Credit or Distinction of the Dublin Institute of Technology. Applicants with qualifications and/or experience other than those specified above, may be specially considered.

APPLICATION PROCEDURES:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE:

20th September

CLASS ATTENDANCE:

Two afternoons and two evenings per week for two years.

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Optics, Thermal Physics, Solid State Physics, Atomic and Nuclear Physics, Electromagnetism and Electronics, Practical Physics.

SECOND YEAR:

Core subjects: Atomic and Nuclear Physics, Applied Optics, Statistical Thermodynamics, Solid State Physics.

Optional subjects (two to be chosen): Optoelectronics, Electronics, Acoustics, Medical Physics, Topics in Mathematical Physics.

Project: All students will be required to complete a Project.

EXAMINATIONS:

Examinations will be held in the six subjects at the end of the first year.

The practical assessment will also count as one paper. Students whose progress during the first year of the course is unsatisfactory, will not be permitted to enter second year.

The Diploma Examination at the end of the second year will consist of two core papers, two optional papers and the project.

AWARD:

Graduates of this course are eligible for the following award:

Diploma in Applied Physics (Dublin Institute of Technology) with grades of Pass, Second Class Honours or First Class Honours as appropriate.

CAREER OPPORTUNITIES:

As physics is a fundamental science, physics graduates find employment over a very wide field of activities. Amongst the most popular employments would be, education (2nd and 3rd level), research, medical physics, electronics, computing, telecommunications, radiological protection agencies and the public service.

FOR FURTHER INFORMATION:

Mr. F.E. FitzSimons BSc MSc CPhys MInstP, Department of Physics. Telephone: 757541 ext. 332

DURATION:

Four years (evenings)

DESCRIPTION OF COURSE:

A course leading to the Graduate Diploma in Statistics of the Institute of Statisticians. Classes are provided for students preparing for the Ordinary Certificate, the Higher Certificate and Graduate Diploma Examinations of the Institute.

CLASS ATTENDANCE REQUIREMENTS:

Four years: Three evenings (9 hours) per week in the second and third year and two evenings (6 hours) per week in the first and fourth years.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE:

20th September

COURSE OF STUDY:

Exemptions may be granted from the Ordinary and Higher Certificate Examinations to candidates with suitable qualifications. Students are advised to contact the Education Secretary, the Institute of Statisticians, 43 St. Peter's Square, Preston, Lancashire PR1 7BX, England, for details of the exemption procedures.

FIRST YEAR:

The Ordinary Certificate in Statistics examination at the end of the year involves two papers covering the Collection and Compilation of Data, Analysis and Interpretation of Data, and Presentation of Results.

SECOND YEAR:

The Higher Certificate in Statistics Examination at the end of the year involves three papers.

- (a) Statistical Theory
- (b) Statistical Analysis
- (c) Statistical Applications and Practice.

THIRD YEAR:

Two of the five papers forming the Graduate Diploma in Statistics Examination are covered in this year. The papers are:

- (a) Statistical Theory and Methods 1
- (b) Statistical Theory and Methods 2.

FOURTH YEAR:

The remaining three papers of the Graduate Diploma in Statistics are covered this year. The papers are:

- (a) Applied Statistics 1
- (b) Applied Statistics 2
- (c) Optional Subject Paper.

AWARD:

Graduate Diploma in Statistics of the Institute of Statisticians.

CAREER OPPORTUNITIES:

The course has been used for in-service training for people working in statistics in Industry, Education and the Civil Service. Graduates are qualified for entry to Higher Degrees by examination or through research.

FOR FURTHER INFORMATION:

Mr. I.A. Kinsella MSc FIS, Department of Mathematics, Statistics and Computer Science.

DURATION:

Three years: evening

DESCRIPTION OF COURSE:

The Certificate in Mathematics has a twofold objective. It is to be seen as providing the necessary modern mathematical foundations for entry to the honours degree level Diploma/Graduateship in Mathematics and additionally it is designed to provide a useful core of modern mathematics for second-level teachers and others who may require such mathematics but who do not need the full range of mathematics usually associated with an honours degree. Students who successfully complete the course should have:

- A sound grasp of mathematical methods/analysis and modern algebra.
- (ii) A wide range of the mathematical techniques normally used in various applied mathematical fields.
- (iii) A basic knowledge of computer science and programming, and experience of using the various microcomputer systems.
- (iv) A sound knowledge of basic data presentation and its statistical analysis.
- (v) Reached an appropriate level of mathematical maturity to enable progression to honours degree standard courses in mathematics.

ENTRY REQUIREMENTS:

The entry requirements shall be a pass in English, a pass in Honours Mathematics and a pass in three other subjects in the Leaving Certificate examination or any other such qualification that the College may deem equivalent. Students with a suitable background will be exempted from the Preliminary Course.

CLASS ATTENDANCE REQUIREMENTS:

Three years: one evening (3 hours) per week in first year and two evenings (6 hours) per week in subsequent years.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE:

20th September

COURSE OF STUDY:

FIRST YEAR:

The first year is a preliminary course provided for candidates who may wish to brush up their knowledge. No formal examination is provided.

SECOND YEAR:

The course consists of two topics:

- (i) Mathematical Methods and Analysis;
- (ii) Computer Science and Programming

THIRD YEAR:

The course consists of two topics:

- (i) Statistics;
- (ii) Algebra.

EXAMINATIONS:

Examinations are set in August/ September for those students completing second and third year of the course.

AWARDS:

Graduates of this course are eligible for the award of:

Certificate in Mathematics (Dublin Institute of Technology).

Successful candidates will be eligible to apply for:

Licentiateship of the Institute of Mathematics and its Applications.

The course content should be particularly useful to teachers of Mathematics at second-level.

FOR FURTHER INFORMATION:

Dr. T. Ambrose,
Assistant Head,
Department of Mathematics, Statistics and Computer Science.
Telephone: 757541 ext. 221

DURATION:

Two years (evenings)

DESCRIPTION OF COURSE:

The Diploma in Mathematics is designed to introduce students to a range of modern pure and applicable mathematics at a level similar to that of a traditional honours degree. The course content is suitable for secondary teachers who wish to improve their mathematical standard from general or pass degree to honours degree standard.

ENTRY REQUIREMENTS:

The Certificate in Mathematics of the Dublin Institute of Technology or Licentiate Membership of the Institute of Mathematics and its Applications or a University Degree with Mathematics at the General Degree level or its equivalent.

CLASS ATTENDANCE REQUIREMENTS:

Two years: two evenings per week.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE: 20th September.

COURSE OF STUDY:

The course consists of four topics three of which will be compulsory.

Examinations will be held in the Autumn and candidates will normally sit examinations at the end of each year.

FIRST YEAR:

- (i) Mathematical Methods;
- (ii) Modern Analysis and Topology.

SECOND YEAR:

- (i) Mathematical Control Theory;
- (ii) Optional Topic from an approved list.

EXAMINATIONS:

Examinations are set in August/ September for those students completing the first and final years of the course.

AWARDS:

Graduates of this course are eligible for the following award:

Diploma in Mathematics (Dublin Institute of Technology).

Successful candidates will be eligible (with some restrictions in the case of candidates obtaining Pass Awards) for:

Graduate Membership of The Institute of Mathematics and its Applications.

CAREER OPPORTUNITIES:

Graduate membership by examination of the Institute of Mathematics and its Applications is widely accepted as equivalent to an honours degree in Mathematics. In particular the

Department of Education has recognised this qualification (with first or second-class honours) as the equivalent of a first or second class honours primary degree for allowance purposes. Such graduates are qualified for employment in Industry, Education, and the Civil Service where degree level mathematics is the essential entry requirement. Such Graduates are also eligible to proceed to postgraduate study and research for higher degrees.

FOR FURTHER INFORMATION:

Dr. T. Ambrose, Assistant Head, Department of Mathematics, Statistics and Computer Science. Telephone 757541 ext. 221

DURATION:

Four years (evenings)

DESCRIPTION OF COURSE:

The examinations of the British Computer Society are intended for those already working in Computing but who were not able, or did not wish, to obtain advanced academic qualifications in Computer Science at the onset of their career. Exemptions from Part I Examinations are sometimes available to holders of general degrees or honours diplomas in Computer Science, but this is at the discretion of the British Computer Society.

ENTRY REQUIREMENTS:

Applicants should already be in suitable employment in the Computer Industry.

CLASS ATTENDANCE REQUIREMENTS:

Four years: two evenings (3 hours) per week.

APPLICATION PROCEDURE:

Applicants should apply before 1st September 1990, enclosing a curriculum vitae to:

The Secretary,
Department of Mathematics,
Statistics and Computer Science,
Dublin Institute of Technology,
Kevin Street, Dublin 8.

Applicants accepted for registration should attend in person at the College

in Room 206 on Monday 16th September 1991 between 18.30 and 20.00 hrs to enrol.

CLOSING DATE:

20th September

COURSE OF STUDY:

A course in computer science covering the examination requirements of Membership of the British Computer Society.

EXAMINATIONS:

The examinations are set and examined by the British Computer Society. Students should expect to sit the Part I Examinations after two years and the Part II Examinations after a further two years. The Part I is set at general degree or HND level and the Part II papers are of Honours Degree standard.

PART I:

Four Papers; Two compulsory general papers and two papers chosen from a list of options. A project must also be undertaken and completed.

PART II:

Three papers chosen from a list of options.

AWARD:

Membership Diploma of the British Computer Society.

CAREER OPPORTUNITIES:

The qualification of Membership of the British Computer Society by

examination, is generally accepted as being equivalent to an Honours Degree in Computer Science. Successful students should find that the opportunities for promotion are greatly increased and that they are trained to adjust and react to any significant changes in the industry.

FOR FURTHER INFORMATION:

Dr. B. O'Shea,
Assistant Head,
Department of Mathematics, Statistics and Computer Science.
Telephone 757541 ext 221

CAS CODE: DT 200 (DT 60 for 1991)

COLLEGE CODE: WBT

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

This course is designed to meet the needs of students who wish to attain supervisory status or a position of responsibility in a bakery business where an understanding of the scientific principles involved, coupled with wide knowledge of the bakery industry is essential.

The course offers an opportunity to both large and small bakery owners to have students trained in this country in all aspects of Bakery Production and Organisation.

The course covers the technology of baking together with practice in all aspects of modern Bakery Production. The sources, handling, storage and control of all raw materials coupled with an extensive programme of raw materials testing are studied as well as Hygiene and Microbiology, Bakery Equipment, Machine and Modern Plant and Production Systems. The financial side of operating a bakery business, including the study of Financial Control, Marketing, Stock and Quality Controls, Business Administration, Production Planning and Human Relations are all covered in the course. A modern continental language is also studied. Final year students are encouraged to sit for the

City and Guilds of London Institute Examination in addition to the Dublin Institute of Technology Diploma Examinations.

ENTRANCE REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects, including Mathematics and English at either level and it is also advisable that applicants should have obtained some work experience in a bakery.

or

(b) City and Guilds Advanced Craft Certificate (No. 120 Part 2)

or

(c) Such qualifications as the College may deem equivalent.

Students holding craft certificates will be exempted from the practical bakery instruction portion of the course, and will be eligible to apply for a reduction of the course fee.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE: 1st February.

COURSE OF STUDY:

FIRST YEAR:

Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Methods and Techniques), Cake Decoration, German.

SECOND YEAR:

Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques), Advanced Cake Decoration, German.

THIRD YEAR:

Applied Science, Bakery Technology, Microbiology and Hygiene, Marketing, Business Administration and Financial Control, Computing, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques), Raw Materials Testing, Production Planning and Human Relations, Product Development, German.

AWARDS:

Graduates of this course are eligible for the following award:

Diploma in Bakery Production and Management (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

Students are required to take the following Examinations of the City and Guilds of London Institute:

120 - Bakery Certificate Parts 1 & 2

126 - Bakery Production Certificate

127 - Bakery and Food Management Certificate

CAREER OPPORTUNITIES:

Graduates of the course are to be found in all of the bakery and allied industries and include General Managers, Production Managers, Technical Representatives, Test Bakers, Bakery Technologists, Product Development Technicians and Bakery Supervisors.

FOR FURTHER INFORMATION:

Mr. Derek O'Brien NBDip FTC(CGLI), Head, National Bakery School, DIT Kevin Street. Telephone 757541 ext. 360

Mary McGuinness from Rush, Co. Dublin (centre) and Colette Brady from Navan, Co. Meath (right) are both graduates of the National Bakery School, DIT Kevin Street.

Both have recently opened their own business in their home town. At a special ceremony held at the College they were presented with the Business Enterprise Awards of the Institute of Irish Bakers by Mr. Robert Humphries, President of the Institute.



CAS CODE: DT 266 (DT 40 for 1991)

COLLEGE CODE: WMT

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

This course is designed to meet the requirements of students seeking training as computer personnel. It provides a theoretical and practical knowledge of computers, computer programming and the computing methods in use in industry, commerce, science and research.

ENTRANCE REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects with Grade B or higher in Ordinary Level Mathematics, and with Grade C or higher in two subjects on Higher Level Papers; subjects must include Mathematics and English at either level.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are offered in the trade examinations, a pass.in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

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(c) Attainment which the College regards as equivalent to those specified

in (a) or (b) will be acceptable.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary, in practice, to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Computer Programming and Computer Systems, Statistics and Business Mathematics, Mathematics, Physics, Business Studies, Technical German, Keyboard Skills.

SECOND YEAR:

Computer Programming, Algorithms and Data Structures, Hardware and Operating Systems, Statistics, Mathematics, Numerical Methods, Business Studies, Technical German.

THIRD YEAR:

Advanced Computer Programming, Microprocessors, Hardware and Data Transmission, Information Systems and Systems Analysis, Operations Research Techniques, Numerical Methods, Business Studies.

AWARD:

Graduates are eligible for the following award:

Diploma in Computer Science (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

The course is designed to train students for the positions of programmer or programmer/analyst in the commercial and technological areas. The course content is sufficiently wide to encourage upward mobility to more senior positions in the computer industry within a few years.

FOR FURTHER INFORMATION:

Dr. Brendan O'Shea,Assistant Head,Department of Mathematics, Statistics and Computer Science.Telephone: 757541 ext 221.

CAS CODE: DT 273 (DT 62 for 1991)

COLLEGE CODE: WAS

DURATION:

Three years wholetime.

DESCRIPTION OF COURSE:

This course is designed to meet the requirements of those students seeking a training as Technicians for:

- (a) Research and development in Industrial Laboratories.
- (b) Scientific and Industrial Instrument Manufacturing Industries.
- (c) The Food Processing Industries.
- (d) Educational Laboratories.
- (e) High Technology Industries.

After the first year this course offers three options:

Applied Biology, Applied Chemistry, Applied Physics.

An important element in the final year is the project, which is an applied laboratory based problem in the major field of study.

ENTRANCE REQUIREMENTS:

- (a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate Examination or
- (b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a

Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large number seeking entry a higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February.

COURSE OF STUDY:

FIRST YEAR:

Physics, Chemistry, Biology, Mathematics, Industrial Studies, Drawing Assignments, Technical French or Technical German or Irish.

SECOND YEAR:

Industrial Studies, Technical French or Technical German or Irish are common to all options. Subjects taken in Second Year are detailed below in respect of each option available.

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology, Cell Biology, Mathematics (including Computer Studies), Quality Control, Photography and Workshop Practice. (This option is limited to 12 students in year 2 and year 3).

Applied Chemistry Option:

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Mathematics and Industrial Chemistry. (This option is limited to 20 students in Year 2 and Year 3).

Applied Physics Option:

Physics, Electronics, Circuit Theory, Mathematics, Instrumentation and Control Systems, Materials Science, Medical Physics, Photography, Acoustics and Engineering Practice.

Entry to one or more of the Options in Year 2 may be limited from time to time. Priority will be given to students according to their position of merit in the class at the Summer Examinations at the end of Year 1.

THIRD YEAR:

As in second year, Industrial Studies is common to each option.

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology and Cell Biology. Students will also take Food Science (including Instrumentation and Control Systems) or Biomedical Science (Haematology and Histology). Entry to the Elective Subjects in the Biology Option in Year 3 will be limited. Priority of choice will be given to students according to their position of merit in the class at the Summer Examinations at the end of Year 2.

Applied Chemistry Option: Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Industrial Chemistry.

Applied Physics Option:
Applied Physics, Materials Science,
Electronics, Circuit Theory,
Instrumentation and Control Theory,
Mathematics, Engineering Practice.

AWARD:

Graduates of this course are eligible for the following award:

Technician Diploma in Applied Science (Option Specified) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Applied aspects of the sciences are the major theme in the three options. Consequently career opportunities are available to graduates in a wide range of production and service industries – hospitals, higher education, electronics, chemicals and pharmaceuticals, computers, food industry and others. Graduates of this course answer the need for greater technical literacy and

competence in virtually all kinds of industry, where technological change is the order of the day. Graduates are eligible to apply for entry to the respective courses leading to Graduate qualifications and membership of Professional Institutes.

FOR FURTHER INFORMATION:

Re: entry to First Year, contact: Mr. S. E. O'Flatharta BSc HDipEd MLitt CPhys MInstP, Department of Physics. Re: Applied Biology Option, contact: Mr. L. Lawlor FIMLS,

Department of Biological Sciences.

Re: Applied Chemistry Option, contact:

Mr. P. Ashall BSc FICI CChem MRSC, Department of Chemistry.

Re: Applied Physics Option, contact:

Mr. J.E. Guy BSc MSc, Department of Physics.

Telephone: 757541

Acoustique de la Harpe Folklorique Irlandaise au département de Physique

La directeur du projet, Patrick Healy, donne des explications à Anne Lebouteiller (à droite) et Nathalie Filloleau, étudiantes en Institut Universitaire de Technologie de "Mesures Physiques", Bordeaux, pendant que Alex Campbell, technicien DIT, utilise l'Analyseur d'Intensité Sonore.



CAS CODE: DT 276

COLLEGE CODE: WASDT

DURATION:

Three years whole-time

DESCRIPTION OF COURSE:

This course is run jointly by the Dublin Institute of Technology (College of Technology, Kevin Street) and the University of Dublin (Dental Hospital). The course aims to provide the educational and training requirements of students who plan to become Dental Technicians.

The Technician Diploma of the Dublin Institute of Technology and the Technician Diploma of the University of Dublin are awarded on the results of the third year examinations.

ENTRANCE REQUIREMENTS:

(a) Pass in English, Pass in Mathematics or Applied Mathematics, Pass in three other subjects in the Leaving Certificate Examination.

or

(b) Attainments which the College and Hospital regard as equivalent to those in (a) will be acceptable.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of competition for places, a higher standard is necessary in practice to gain entry to the course.

Interviews may be used in the student selection process.

APPLICATION PROCEDURE:

Applicants should apply on the standard DIT Application Form to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Physics, Chemistry, Mathematics, Anatomy and Physiology, Dental Laboratory Practice.

SECOND YEAR:

Dental Materials Science, Technical Drawing, Business Studies, Dental Laboratory Practice.

THIRD YEAR:

Dental Laboratory Practice, Projects.

AWARDS:

Graduates of the three-year Diploma course are eligible for the following awards:

Technician Diploma in Dental Technology (Dublin Institute of Technology) and

Technician Diploma in Dental Technology (University of Dublin), with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates of the course will find

employment as dental technicians in dental laboratories, with dental practitioners and in dental and related hospital departments.

FOR FURTHER INFORMATION:

Dr. M. Hussey, Head, Department of Physics, Telephone 757541 ext. 265 CAS CODE: DT 278 (DT 63 for 1991)

COLLEGE CODE: WASPH

DURATION:

Three years wholetime, or part-time on a modular basis.

DESCRIPTION OF COURSE:

This course, which is modular in basis, may be taken as a three year wholetime course, qualifying students for ESF funding. Alternatively, the course may be taken on a part-time modular basis by students in employment. This allows students to undertake the course at their own pace over a longer period, completing one phase's modules in a subject before going on to the next phase in that subject.

ENTRANCE REQUIREMENTS:

(a) Grade C or higher in two subjects taken at Higher Level in the Leaving Certificate Examination and pass levels in four other subjects in the Leaving Certificate Examination. (Mathematics, with at least a Grade C on the Ordinary Level paper and English must be among the subjects passed in all cases).

or

(b) An equivalent qualification.

or

(c) Acceptable appropriate practical experience.

APPLICATION PROCEDURE:

Applicants should apply on the standard

CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February.

COURSE OF STUDY:

PHASE ONE:

Photography Theory, Photography Practical, Visual Studies, Light, Business Studies, Communications, German, Computer Studies, Workshop Practice.

PHASE TWO:

Photography Theory, Photography Practical, Visual Studies, Optics, Business Studies, German, Electricity.

PHASE THREE:

Photography Theory, Photography Practical, Visual Studies, Holography, Health and Safety, Marketing and Business Communications, Computer Studies.

AWARD:

Students who have achieved a pass in all required modules of the course in Phases One, Two and Three are eligible for the award of Technician Diploma in Photography. The grade in which the award is made is based on the combined total of points accumulated from the modules undertaken.

Students of this course are eligible for the following award:

Technician Diploma in Photography (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates work as photographic assistants in photography practice in both the private and public sector.

Graduates who have attained the Technician Diploma in Photography at Credit or Distinction levels, may be

Credit or Distinction levels, may be eligible to continue their studies towards the Professional Diploma in Photography.

FOR FURTHER INFORMATION:

Mr. S. Coonan AdvCert(DIT)
AdvCert(CGLI) MLitt,
Photography Section,
Department of Physics.
Telephone 757541.





Top left:

The second Graduate Show featuring selections of pictures by the successful final year photography students was officially opened by Senator Dr. Carmencita Hederman.

The Exhibition, held at the Gallery of Photography, Wellington Quay, Dublin, was sponsored by Kodak Ireland Ltd and has since been shown in Belfast and at DIT Kevin Street during Arts Week.

Left to Right: Mr. Donal Higgins, Gallery of Photography, Senator Dr. Carmencita Hederman, Mr. Declan Brennan, Kodak Ireland Ltd, and Mr. David H. Davison, Head of Photography Section, DIT Kevin Street.

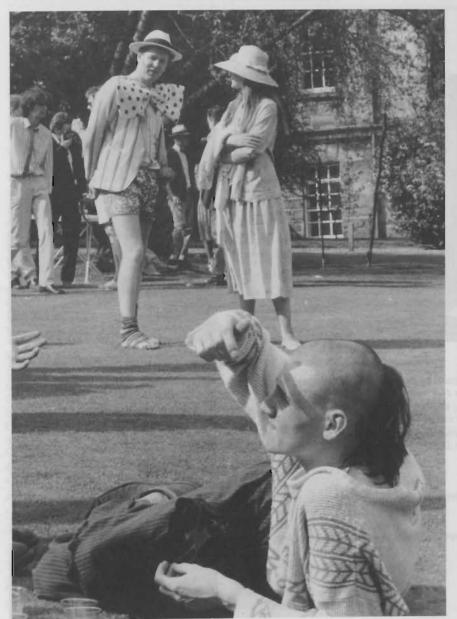
Top right:

Portraiture - Lester Piggott, by Jacqueline O'Brien.

Left:

Portraiture - Professor George Dawson in his rooms in Trinity College, by Veronica Nicholson.







Left: Society — The Garden Party, Trinity College, by Veronica Nicholson.

Top: Landscape — Castle Hog, Lough Mask, by Tom Byrne.

COLLEGE CODE: PAS

DURATION:

Four years part-time

DESCRIPTION OF COURSE:

This course is designed to meet the requirements of those students seeking a basic training as Technicians for:

- (a) Research and Development in Industrial Laboratories
- (b) Scientific and Industrial Instrument Manufacturing Industries
- (c) The Food Processing Industries
- (d) Education Laboratories
- (e) High Technology Industries

After the first two years this course may offer two options depending on the number of applicants:

Applied Biology or Applied Chemistry.

An important element in the final year is the project, which requires the presentation of a report of 3000-4000 words relating to some technical or business aspect of the major field of study.

ENTRANCE REQUIREMENTS:

(a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate examination.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade

examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examination of the Department of Education will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

CLASS ATTENDANCE REQUIREMENTS:

1 day and 2 evenings per week (15 hours).

COURSE OF STUDY:

FIRST & SECOND YEARS:

Physics, Chemistry, Biology, Mathematics, Industrial Studies, Drawing Assignments, Technical French or Technical German or Irish.

THIRD & FOURTH YEARS:

Industrial Studies, Technical French or Technical German or Irish are common to all options. Subjects taken in years 3 and 4 are detailed below in respect of each option available.

Applied Biology Option:
Biochemistry, Microbiology,
Biotechnology, Cell Biology,
Mathematics (including Computer
Studies), Language, Business Studies,
Quality Control, Photography and
Workshop Practice.

Applied Chemistry Option:
Physical Chemistry, Inorganic
Chemistry, Organic Chemistry,
Mathematics and Industrial Chemistry.

AWARD:

Graduates of this course are eligible for the following award:

Technician Certificate in Applied Science (Option Specified) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

FOR FURTHER INFORMATION:

Dr. Marie Keating, Department of Chemistry. Telephone 757541 ext. 324

NOTE: No new candidates will be accepted for the 1991/92 session.

COLLEGE CODE: PAS 5 & 6

DURATION:

Two years part-time

DESCRIPTION OF COURSE:

This course is designed to meet the requirements of those students who hold a Technician Certificate in Applied Science and who seek further training as technicians for:

- (a) Research and Development in Industrial Laboratories
- (b) Scientific and Industrial Instrument Manufacturing Industries
- (c) The Food Processing Industries
- (d) Educational Laboratories
- (e) High Technology Industries

This course offers two options:

Applied Biology or Applied Chemistry.

An important element in the final year is a project, which is an applied laboratory based problem in the major field of study.

ENTRANCE REQUIREMENTS:

(a) Technician Certificate in Applied Science (Dublin Institute of Technology)

or

(b) A qualification which the College considers to be equivalent to (a).

COURSE OF STUDY:

BOTH YEARS:

Industrial studies is common to each option.

Applied Biology Option:

Biochemistry, Microbiology, Biotechnology, Cell Biology and Business Studies. Students will also take Food Science (including instrumentation and control systems) or Biomedical Science (Haematology and Histology).

Applied Chemistry Option:

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Industrial Chemistry.

AWARD:

Graduates of this course are eligible for the following award:

Technician Diploma in Applied Science (Option Specified) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Applied aspects of the sciences are the major theme in the options. Consequently career opportunities are available to the graduates in a wide range of production and service industries, such as the hospitals, higher education, chemicals and pharmaceuticals, computers, food industry and others. The graduates of this course answer the need for greater technical literacy and competence in virtually all kinds of industry, where technological change is the order of the day. Graduates are eligible to apply for entry to their respective courses leading to Graduate

qualifications and membership of Professional Institutes.

FOR FURTHER INFORMATION:

Dr. Marie Keating, Department of Chemistry. Telephone: 757541 ext.324

NOTE: No new candidates will be accepted for the 1991/92 session.

COLLEGE CODE: PSTO

DURATION:

Three years part-time

DESCRIPTION OF COURSE:

This part-time course is designed for and restricted to those who are employed as trainee dispensing opticians. It leads to a Certificate in Optical Dispensing and, together with the practical training obtained in employment concurrent with the course, is equivalent to a former full-time course at the College in Optical Dispensing. The course provides the education and training required by entrants to the profession specified by the Opticians Act (1956) and the Rules made thereunder.

In order to practice as Dispensing Opticians, holders of the Certificate must also satisfy the appropriate professional body as to their clinical competence, and must be registered with Bord na Radharcmhastóirí (the Opticians Board), which is the Registration Authority set up under the Act.

ENTRY REQUIREMENTS:

(a) Employment under supervision by either an optometrist (ophthalmic optician) or dispensing optician approved by the Opticians Board for this purpose

and either

(b) Irish Leaving Certificate in five subjects (at either level) which must include Mathematics and English or

(c) Attainment which the College regards as equivalent to (b) above.

CLASS ATTENDANCE REQUIREMENTS:

Mondays (day and evening) plus Tuesday mornings.

APPLICATION PROCEDURE:

The standard application form should be completed and submitted to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

1st September

COURSE OF STUDY:

FIRST YEAR:

Mathematics and Statistics, Physics, Human Biology, Optical Dispensing.

SECOND YEAR:

Geometrical and Physical Optics, Visual Optics, Ophthalmic Instruments, Optical Dispensing.

THIRD YEAR:

Contact Lenses, Law and Ethics, Business Studies and Computing, Physiology of Vision and Binocular Vision, Advanced Dispensing.

AWARD:

Graduates of the course are eligible for

the following award:

Certificate in Optical Dispensing (Dublin Institute of Technology) with grades of Pass, Credit or Distinction.

CAREER OPPORTUNITIES:

The main area of employment for graduates of the course is as dispensing opticians, whether self-employed or working with optometrists or other professionals.

FOR FURTHER INFORMATION:

Dr. P.A. Davison Department of Physics, Telephone 757541 ext. 235

NOTES:

- 1. This course will not be offered in session 1991/92.
- Academic Entry Requirements specified above are minimum requirements.

COLLEGE CODE: PBE

DURATION:

Three years (three evenings per week)

DESCRIPTION OF COURSE:

This is a course for those who work in Medical Physics or are engaged in various aspects of Physiological Measurement or Bioengineering. It will be of interest to those working in hospitals, research and certain types of veterinary, pharmaceutical and agricultural work.

The course in the first year deals with the basic sciences and in subsequent years with the general range of Physiological Measurement, Bioengineering and Radioisotope techniques normally used in these situations.

ENTRY REQUIREMENTS:

Pass in English, pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate Examination or an equivalent qualification.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE: 20th September.

COURSE OF STUDY:

FIRST YEAR:

Physics, Chemistry and Biology, Introduction to Electricity, Physiology and Data Interpretation.

SECOND YEAR:

Electricity and Electrical Measurement, Human Physiology and Biochemistry, Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.

THIRD YEAR:

Physiology, Physiological Measurement Techniques, Biophysics, Bioengineering Techniques, Radioisotope Techniques, Computation Techniques.

AWARD:

Graduates of this course are eligible for the following award:

Technician Certificate in Medical Physics and Physiological Measurement (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

The Certificate is a major help for career advancement in the health service.

FOR FURTHER INFORMATION:

Mr. P.G. Goodman BSc MSc CPhys MInstP, Department of Physics. Telephone: 757541

Neil Armstrong, a final-year student on the Technician Diploma Course in Applied Science (Physics Option), in the Eye Diagnostic Unit, Mater Hospital where he spent three weeks gaining work experience. Work experience is now an integral part of the final year of this course.



COLLEGE CODE: PSP

DURATION:

Three years part-time

DESCRIPTION OF COURSE:

This part-time course in Photography meets the requirements of students who are employed within a relevant area of the profession.

ENTRY REQUIREMENTS:

(a) Pass in English, Mathematics (or Applied Mathematics) and in three other subjects in the Leaving Certificate examination.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examination of the Dept. of Education will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

CLASS ATTENDANCE REQUIREMENTS:

One day and three evenings per week for three years.

COURSE OF STUDY:

FIRST YEAR:

Photographic Theory and Practice,

Chemistry, Physics, Technical German, Industrial Studies, Graphic Design.

SECOND YEAR:

Photographic Theory and Practice, Physics, Technical German, Industrial Studies, Visual Studies.

THIRD YEAR:

Photographic Theory and Practice (including Colour Work), Physics, Technical German, Industrial Studies, Visual Studies.

The final examination for the Dublin Institute of Technology Certificate in Professional Photography is taken at the end of the third year.

Students are required to sit and pass the College examinations at the end of each year of the Course.

AWARD:

Graduates of this course are eligible for the following award:

Certificate in Professional Photography (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates work as photographic assistants in photography practices and will continue their studies towards the Advanced Certificate in Professional Photography.

FOR FURTHER INFORMATION:

Mr. S. Coonan AdvCert(DIT)
AdvCert(CGLI) MLitt,

Photographic Section, Department of Physics. Telephone: 757541

NOTE: No new applicants will be accepted for this course. See Technician Diploma in Photography.

COLLEGE CODE: PSN

DURATION:

Three years, block-release or two evenings per week for one year.

DESCRIPTION OF COURSE:

This course is organised by two of the Colleges of Dublin Institute of Technology; the College of Commerce, Rathmines and the College of Technology, Kevin Street.

Block-release attendance is organised in conjunction with the Nursing Schools of a number of Dublin Hospitals.

ENTRY REQUIREMENTS:

- (a) For those taking the Course by Block Release:
- 1. As required by the Nursing Schools participating but not less than:
- (a) Irish Leaving Certificate in six subjects, including Mathematics and English, with Grade C or higher in two subjects on Higher Level papers.

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- (b) Attainment which the College regards as equivalent to that specified in (a) will be acceptable.
- 2. Prospective students who seek to undertake the course by block-release are also required to be members of a Hospital Nursing School which has an agreement with the Dublin Institute of Technology in relation to this course.

(b) For those taking the Course over 1 year:

1. Hold a qualification which enables one to qualify for State Registration as a nurse.

APPLICATION PROCEDURE:

(a) Block Release Option:

The standard application form should be completed by each student. Application will then be made on behalf of the applicants by the Nursing School in which they are registered.

(b) One year (evenings) Option: Applicants should apply before 4th September, on the standard application form to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLASS ATTENDANCE REQUIREMENTS:

Three years with a block-release in each year or two evenings per week for one year.

COURSE OF STUDY:

(a) For those taking the Course by Block Release:

FIRST YEAR:

Biophysics:

Units, Number Systems, Mechanics, Heat, Gases, Electricity, Electromagnetic Waves, Light, Sound.

Chemistry:

Atomic Structure, Periodic Table, Bonding, Organic and Inorganic Compounds, Lipids, Carbohydrates, Proteins, Osmosis, Diffusion.

Law:

Sources of Irish Law, the Constitution, Common Law, Statute Law, Law of Contract, Law of Personal Property, Criminal Law.

Psychology:

Psychology, Psychiatry and Psychoanalysis. Individual development and Adjustment.

Social Science:

Concepts, Perspectives, Social Research Methods. Distribution of Income and Wealth.

SECOND YEAR:

Biochemistry:

Haemodialysis, Nucleic Acid and Protein Synthesis, Carbohydrates, Lipids, Proteins, Vitamins, Water and Electrolyte Balance, Acid/Base Balance.

Biophysics:

Bioelectricity, Electrical Safety, Electrocardiography, Physiological Measurement, ECG Monitors/ Recorders, Cardiac Pacemakers and Defibrillators, Pulmonary Function, Automatic Lung Ventilators.

Law:

Law of Torts, Negligence, Assault, Battery, Consent, Occupiers Liability, Defamation.

Psychology:

Clinical Psychology, Behavioural Therapies, Stress, Psychological Aspects of Hospital Care.

Social Science:

Family, Marriage Rates, Fertility, Birth, Post-Natal Depression, Birth and Health Care.

THIRD YEAR:

Biochemistry:

Glucose Metabolism, Types of Diabetes, The Liver, Types of Jaundice, Gastric and Pancreatic Function, Enzymes, Endocrinology, Coagulation.

Biophysics:

Diagnostic Radiology, Radiography, Fluoroscopy, Computed Tomography, Atomic and Nuclear Physics, Nuclear Medicine, Diagnostic ultrasound, Doppler Effect, Electrosurgery, Radiation Protection.

Law:

Nurses Act (1985), Mental Health/Treatment Acts, Drugs Legislation, Larceny Act (1916), Trade Disputes Act (1906-1982).

Psychology:

Inter-group Processes, Planned Change, Learning, One-to-one Communication.

Social Science:

The Hospital as an Organisation, Bureaucracy, Characteristics of Hospital Structures, Communications in Hospitals.

(b) For those taking the Course over one year (Evening Option):

The combined syllabuses of the three year block-release option as shown at (a) above.

AWARD:

Graduates of this course are eligible for the following award:

Certificate in Sciences for Nurses (Dublin Institute of Technology), with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

This certificate is a valuable aid to career advancement in the hospitals and to mobility within health services abroad.

FOR FURTHER INFORMATION:

Dr. M. Hussey, Department of Physics. Telephone: 757541

COLLEGE CODE: PCP

DURATION:

1 year part-time

DESCRIPTION OF COURSE:

A part-time course for trainee technicians, foremen, supervisors and trainee managers in the plastics processing industry. It is designed to give a broad education in plastics processing and includes a study of materials science, extrusion technology, film production, blow moulding, injection moulding and pipe-extrusion.

COURSE DURATION:

One year – one week full-time in September followed by one afternoon and evening per week during the remainder of the academic year.

OUALIFICATIONS FOR ADMISSION:

(a) Pass in English, Mathematics (or Applied Mathematics), and in three other subjects in the Leaving Certificate Examination.

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- (b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.
- (c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

FOR FURTHER INFORMATION:

Dr. Noel Russell, Assistant Head, Department of Chemistry. Telephone: 757541 ext. 220

First Place in Royal Society of Chemistry Final Examination for DIT Kevin Street Student

Damien Martin Murphy receiving the Marriott Prize for outstanding performance in the Graduateship of the Royal Society of Chemistry Examinations (1990). Also in the picture are Dr. N.R. Russell, Course Tutor and Honorary Representative of the Royal Society of Chemistry, who presented the prize and Mr. S. Hamill, Course Director.

Damien Martin Murphy is taking up post-graduate research at the University of Turin with Professor E. Giamello in the area of surface catalysis. This work is carried out in collaboration with Dr. E. O'Donoghue, DIT Kevin Street.



COLLEGE CODE: PRA

DURATION:

2 years part-time

DESCRIPTION OF COURSE:

A part-time day course for technical staff employed in the Brewing and Distilling Industry. The course structure has been approved by the Institute of Brewing.

QUALIFICATIONS FOR ADMISSION:

(a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate Examination.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

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(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable as qualifications for admission.

COURSE OF STUDY:

FIRST YEAR:

Chemistry, Physics and Botany.

SECOND YEAR:

Biochemistry, Microbiology, Fermentation Science.

EXAMINATIONS:

Students will be expected to sit the Examination for Associateship of the Institute of Brewing at the end of the second year.

FOR FURTHER INFORMATION:

Mr. John McEvoy BSc BA BD BSc(Econ) AIFSTI, Department of Biological Sciences. Telephone: 757541 ext. 230

COURSE FOR REGISTERED NURSING AUXILIARIES OF THE ROYAL COLLEGE OF VETERINARY SURGEONS

COLLEGE CODE: S9

DURATION:

Two years: two evenings per week

DESCRIPTION OF COURSE:

This part-time course is designed to meet the needs of students employed in approved veterinary clinics and who wish to study for the examinations for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons.

ENTRANCE REQUIREMENTS:

Irish Leaving Certificate in five subjects including Mathematics and English or equivalent.

and

employment in an approved veterinary clinic.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 19th September 1991 to enrol.

CLOSING DATE: 19th September

COURSE OF STUDY:

FIRST YEAR:

Anatomy and Physiology, First Aid, Theory and Practice of Nursing including Dietetics, Management, Hygiene and Feeding.

SECOND YEAR:

Diagnostic Aids, Medical and Surgical

Nursing, Radiography, Obstetrical and Paediatric Nursing.

AWARDS:

At the end of Year 1 students sit Part I of the Registration Examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons. At the end of Year 2 they may complete Part II of this examination and thus qualify as Registered Animal Nursing Auxiliaries (RANA).

CAREER OPPORTUNITIES:

Graduates of this course are eligible to apply for posts working in animal houses, veterinary clinics, animal homes and other such establishments where trained animal nurses are required.

FOR FURTHER INFORMATION:

Ms. B.A. Ryan BSc MSc CBiol MIBiol DipIndMicrob,

Head,

Department of Biological Sciences. Telephone: 757541 ext. 329

DURATION:

2 years, two evenings per week.

DESCRIPTION OF COURSE:

A course leading to the Certificate of the Institute of Meat. This course is designed for supervisory personnel in the Meat Industry and the evening classes are supplemented by on-the-job training in the relevant meat factories. Students are therefore required to be in appropriate employment.

ENTRY REQUIREMENTS:

(a) Pass in English, Mathematics (or Applied Mathematics), and three other subjects in the Leaving Certificate Examination

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject in the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

FOR FURTHER INFORMATION:

Mr. John McEvoy BSc BA BD BSc(Econ) AIFSTI, Department of Biological Sciences. Telephone: 757541 ext. 230



Graduate Class of 1990 — Technician Diploma in Applied Science (Biology Option)
Back Row, left to right: Richard Carroll, Kevin Kiernan, Louis Ryan, Fergal Morrin, Francis Dunne,
Karl Brogan.

Centre Row, left to right: Alison Brazil, Mary Lanney, Teresa Cooney, Jane O'Rourke, Bernadette Teeling, Kerry Mulcahy, Dervla Batt, Gemma O'Brien, Elizabeth Sheehan, Karen McGee, Siobhan Stoneham. Front Row, left to right: Mr. Liam Lawlor, Assistant Head, Department of Biological Sciences, Trena Ratcliffe, Caroline Moran, Catherine Magee, Dr. Louis Armstrong, Course Director.

DURATION:

One year, two evenings per week.

DESCRIPTION OF COURSE:

This one year course has two primary aims:

- (i) To provide a basic training in Medical Records Administration and
- (ii) To prepare students for the Certificate Examination of the Institute of Hospital and Health Service Administrators.

The course is specifically aimed at and intended to meet the needs of clerical and secretarial staff working in medical records, medical secretarial, admissions, out-patients, radiology, pathology and other medical support departments.

ENTRANCE REQUIREMENTS:

Academic attainment as stated and in addition students must register with the Institute of Hospital and Health Service Administrators before presenting themselves for enrolment on the course.

To become a registered student, a person is required to:

- (a) Be employed in a hospital or branch of the health service or in a health agency.
- (b) Have passed the Leaving Certificate Examination or its equivalent in at least five subjects including English and Mathematics. Applications will be considered from mature students.

(c) Apply to the Institute on the prescribed form accompanied by the appropriate registration fee.

Application forms for registration may be obtained from:

The Director of Education,
Institute of Hospital & Health
Service Administrators,
c/o Hume Street Hospital,
Dublin 2.
Telephone: 766935 (mornings only)

APPLICATION PROCEDURE:

Applicants should apply on the standard application form to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College at 18.30 on Tuesday 24th September 1991 to enrol.

COURSE OF STUDY:

Lectures are held on two evenings per week: Tuesday and Thursday, from 18.00 hrs to 21.00 hrs and cover the following subjects:

Patient Administration,
Patient Records,
Medical Terminology, Anatomy and
Physiology,
Principles of Organisation and
Management,
Social & Public Administration,
Communications.

FURTHER STUDY:

Students who pass the Certificate Examination on completion of this course and who wish to pursue the Diploma of the Institute in Hospital and Health Service Administration may be granted exemption in the following subjects:

Medical Records,
Principles of Organisation
& Management,
Social & Public Administration.

AWARD:

Students must sit

The Certificate Examination of the Institute of Hospital and Health Service Administration

at the end of the course. Only registered students of that Institute who comply with its regulations are eligible to sit for the Certificate Examination.

CAREER OPPORTUNITIES:

Graduates of this course are eligible to apply for administration posts in hospitals and other institutions of the Health Services.

FOR FURTHER INFORMATION:

Mr. L. Lawlor FIMLS, Assistant Head, Department of Biological Sciences. Telephone: 757541 ext. 215

DURATION:

Two stages each of 1 year, one evening per week.

DESCRIPTION OF COURSE:

A two stage course covering the requirements for the Intermediate Stage and Advanced Technological Examinations of the Department of Education.

CLASS ATTENDANCE REQUIREMENTS:

Stage 1: one evening (3 hours) per week for 1 year; Stage 2: one evening (3 hours) per week for 1 year.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE: 19th September

EXAMINATIONS:

The Intermediate Stage Examination in Mathematics of the Department of Education at the end of the first year; the Advanced Technological Certificate Examination in Mathematics of the Department of Education at the end of the second year.

FOR FURTHER INFORMATION:

Dr. T. Ambrose, Assistant Head, Department of Mathematics, Statistics and Computer Science. Telephone: 757541 ext. 221



Graduate Membership by examination of the Institute of Mathematics and its Applications is a professional qualification equivalent to an honours degree. Candidates obtaining honours on the DIT Diploma in Mathematics are eligible for such graduate membership under an arrangement between the Institute and the Department of Mathematics, Statistics and Computer Science.

The Photograph shows, from left to right: Kevin Donoghue, Dr. Brendan Goldsmith, Head, Department of Mathematics, Statistics and Computer Science, Annette Hayes and Noel Coldrick.

DURATION:

5 years, one evening per week.

CLASS ATTENDANCE REQUIREMENTS:

Five years: one evening per week (1.5 hours per week for the first year; 2 hours per week in the second, third, fourth and fifth years).

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE:

19th September

COURSE OF STUDY:

A range of mathematical topics appropriate to the Telecommunications Technician Courses of the City and Guilds of London Institute.

AWARD:

City and Guilds of London Institute Telecommunication Technicians' Course Examinations in Mathematics (Mathematics T1, T2, T3, T4, T5) are taken at the end of each year.

FOR FURTHER INFORMATION:

Dr. T. Ambrose, Assistant Head, Department of Mathematics, Statistics and Computer Science. Telephone: 757541 ext. 221

DURATION:

l year, one evening per week.

ENTRY REQUIREMENTS:

Applicants should have completed an apprenticeship and be working in the Electrical Contracting Industry. The Department of Education Senior Trades Certificate in Electrical Installation Work is desirable.

COURSE OF STUDY:

An introduction to computer architecture and processing, BASIC programming and the use of software packages appropriate to the electrical contracting industry.

CLASS ATTENDANCE REQUIREMENTS:

One evening (3 hours) per week.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

FOR FURTHER INFORMATION:

Ms. M. Maguire BA HDipEd MMangtSc, Department of Mathematics, Statistics and Computer Science. Telephone: 757541 ext. 334

DURATION:

1 year, one evening per week.

ENTRY REQUIREMENTS:

Applicants should have some knowledge of programming in BASIC.

COURSE OF STUDY:

A course designed to introduce and explore important mathematical concepts with the aid of a microcomputer. The concepts introduced and techniques used may be of special interest to teachers of mathematics at first and second level but not exclusively so.

CLASS ATTENDANCE REQUIREMENTS:

One evening (3 hours) per week.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

FOR FURTHER INFORMATION:

Dr. B. O'Shea, Assistant Head, Department of Mathematics, Statistics and Computer Science. Telephone: 757541 ext. 221

DURATION:

One year, one evening per week (3 hours).

ENTRY REQUIREMENTS:

Normally English and Mathematics at Grade D or better in Leaving Certificate. Also some knowledge of programming.

DESCRIPTION OF COURSE:

This is a one year course in Cobol Programming. There will be a substantial emphasis on practical programming.

APPLICATION PROCEDURE:

Applicants should send a C.V. indicating educational qualifications, work experience and knowledge of computing to secretary of Department in advance of registration. Applicants who have been accepted should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE: 19th September

AWARD:

Certificate of Satisfactory Attendance for those who successfully complete the course.

FOR FURTHER INFORMATION:

Dr. B. O'Shea, Assistant Head,Department of Mathematics, Statistics and Computer Science.Telephone: 757541 ext. 221.

DURATION:

I year, one evening per week.

DESCRIPTION OF COURSE:

An introduction to the Pascal programming language (with applications to engineering) and to microprocessing software.

CLASS ATTENDANCE REQUIREMENTS:

One evening (3 hours) per week.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Wednesday 11th September 1991 to enrol.

CLOSING DATE:

20th September

ENTRY REQUIREMENTS:

Candidates must possess a pass in Mathematics at Grade C or higher in the Leaving Certificate Examination or equivalent.

FOR FURTHER INFORMATION:

Dr. B. O'Shea, Assistant Head, Department of Mathematics, Statistics and Computer Science. Telephone: 757541 ext. 221



Membership of the British Computer Society

The British Computer Society is incorporated by Royal Charter and became a full member of the Engineering Council in 1990.

Membership of the British Computer Society, through examination, is a professional qualification of Honours Degree standard.

Students who successfully complete Part 1 of the Society's examinations are eligible for Licentiate Membership of the British Computer Society. They may also be eligible for Licentiate Membership (Professional Grade) of the Institute of Data Processing Management (LIDPM) and for Associate Membership of the Institution of Analysists and Programmers (AMIAP).

Back Row, left to right: Mary Cronin, Francis Corrigan, Kevin Kilty, Norah Gallagher, Barry Murphy, Mr. Oliver O'Connor, Mary Rigney.

Front Row, left to right: Mr. Kevin O'Donnell, Angela McAuley, Dr. Brendan Goldsmith, Head, Department of Mathematics, Statistics and Computer Science, Anne McCarthy, Dr. Brendan O'Shea, Assistant Head, Department of Mathematics, Statistics and Computer Science.

COLLEGE CODE: PSB

DURATION:

4 years part-time

DESCRIPTION OF COURSE:

A part-time course in Breadmaking and Flour Confectionery for Bakery Apprentices.

ENTRY REQUIREMENTS:

Prospective students must be apprenticed to the Bread-making and Flour Confectionery trades and have a second level education which the College considers satisfactory.

CLASS ATTENDANCE REQUIREMENTS:

One day for four years.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

20th September

COURSE OF STUDY:

A Course of Study in Bakery Practice, Bakery Technology, Raw Materials, Bakery Science and Social Studies is given over the four years of the Course.

AWARD:

Internal examinations are set by the College. Students may also sit

examinations of the City and Guilds of London Institute.

CAREER OPPORTUNITIES:

Students who pass the London City and Guilds Certificate No. 120 with Credit are eligible to apply for a place on the Wholetime Diploma Course in Bakery Production and Management. There are good career opportunities at present for Bakers and Confectioners at operative and junior supervisory level.

FOR FURTHER INFORMATION:

Mr. Derek O'Brien NBDip FTC(CGLI), Head,

National Bakery School. Telephone: 757541 ext. 360



The Renshaw Cup competition was established in the National Bakery School in 1935 and the bakery students have competed for it every year since that time.

The students are required to produce a range of almond goods in a five-hour period. They are then judged by a panel of judges.

Our photograph shows Colette Brady of Navan, Co. Meath, the 1990 competition winner, being presented with her prize by Mr. Eugene Verdon of Renshaw Ltd.

B1.2 Traditional Royal Icing

B1.3 Traditional Royal Icing

B1.3 Australian Style

DURATION:

2 years: one evening per week

DESCRIPTION OF COURSE:

A part-time evening course in cake design, icing and piping.

ENTRY REQUIREMENTS:

Prospective students must be employed in the Bakery Industry.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Thursday 12th September 1991 to enrol.

CLOSING DATE:

20th September

COURSE OF STUDY:

B1.2 (Introductory Course): Traditional method of Royal Icing, coating, simple piping, writing, run outs and special effects.

B1.3 (Advanced Course — Royal Icing): Advanced craft work in Royal Icing, piping and figure piping. Advanced design and run out work.

B1.3 (Advanced Course — Australian Style):

Ornamental lace work, ribbon insertion, brush embroidery, exhibition techniques.

AWARD:

No formal examinations are provided but students are encouraged to enter the following competitions:

Institute of Irish Bakers Cup Falconer Cup Siúcra/Irish Sugar Award

CAREER OPPORTUNITIES:

Vacancies always exist in the Bakery Trade for good cake decorators and confectionery finishers.

FOR FURTHER INFORMATION:

Mr. Derek O'Brien NBDip FTC(CGLI), Head,

National Bakery School. Telephone: 757541 ext. 360

In 1961 Mr. Robert Briscoe, as Lord Mayor of the City of Dublin, presented the National Bakery School with a Shield to be competed for each year by Bakery students.

The students are required to provide a range of breads and fermented goods in a five-hour period.

Our photograph shows Laura Rooney from Dublin, who was the competition winner in 1990.



COLLEGE CODE: DT 221 (SEE)

CAO CODE: FT 21

DURATION:

Four years wholetime

DESCRIPTION OF COURSE:

This course is designed for the education of electrical/electronic engineers to an honours degree level. There is a moderate degree of specialisation in one of the following fields:

Electrical Power Control Systems Electronics, Communication and Computers

The content of the course includes lectures, tutorials and, where appropriate, practical and laboratory work. The first two years of the course are common to all students. At the beginning of the third year students commence their specialist option which extends over the final two years. It is intended that there should be approximately equal numbers of students in each of the three options. In the first instance, option choice will be by student preference; however, priority will be given on the basis of performance in the second year Summer examinations.

MIMIMUM ENTRY REQUIREMENTS:

(a) Passes in six subjects in the Irish Leaving Certificate including English, with Grade C or higher on higher level papers in **both** Mathematics and Physics.

From 1992 onwards, passes in six subjects in the Irish Leaving Certificate, including English, with Grade C or higher in higher level papers in Mathematics and one of Physics, Chemistry, Physics with Chemistry, Applied Mathematics or Engineering.

The following scores are awarded to Grades A to C on the Higher Leaving Certificate paper in Mathematics: A-14, B-12, C-10.

The following scores are awarded to Grades A to C on the Higher Leaving Certificate papers in Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Engineering: A-11, B-9, C-7.

These scores are awarded for Higher Leaving Certificate papers only.

OF

(b) Pass in three subjects at A-Level in the General Certificate of Education. The following scores are awarded to Grades A to C on the General Certificate in Education A-Level papers:

A-Level Mathematics: A-20, B-17, C-14. A-Level Physics, Chemistry, Applied Mathematics: A-17, B-14, C-11.

or

(c) Such qualification as the College may deem equivalent.

NOTE: It must be emphasised that the above are the minimum requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS.

Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Applied Mechanics, Physics, Properties of Materials, Electricity, Electronic Systems, Engineering Computing, Engineering Practice, Business and Management Studies, Language (French/German).

SECOND YEAR:

Mathematics, Physics, Field and Circuit Theory, Signal and System Theory, Electronics, Computer Systems, Electrical Machines, Measurements and Instrumentation, Business and Management Studies, Language (French/German).

THIRD YEAR:

Subjects common to all Options: Mathematics, Business and Management Studies, Language (French/German).

Electrical Power Option: Circuit Theory, Field Theory, Applied Thermodynamics, Electrical Power, Control Systems and Instrumentation, Electronics.

Control Systems & Instrumentation Option: Circuit Theory, Field Theory, Electronics, Signal and System Theory, Control Systems I, Control Systems II.

Electronics, Communications & Computer Option:

Circuit Theory, Field Theory, Signal and System Theory, Electronics, Computer Systems, Communications Engineering.

FOURTH YEAR:

Subjects common to all Options: Mathematics, Business and Management Studies.

Electrical Power Option: Circuit Theory, Electronics, Electrical Power, Control Systems and Instrumentation, Project.

Control Systems & Instrumentation Option: Circuit Theory, Electronics, Control Systems I, Control Systems II, Project.

Electronics, Communications & Computer Option:
Signal and System Theory,
Electromagnetic Field Theory,

Electronics, Computer Engineering, Communications Engineering, Project.

AWARDS:

Graduates of this course are eligible for the following awards:

Diploma in Electrical/Electronic Engineering (Dublin Institute of Technology) with grades of Pass, Second Class Honours and First Class Honours as appropriate

and

BSc(Eng) (University of Dublin) with the same honours classification.

The course has been accredited by the Institution of Engineers of Ireland as satisfying the academic requirements for Corporate Membership of the Institution.

CAREER OPPORTUNITIES:

Graduates of the course are employed in all areas of electrical/electronic technology, including computer engineering, electronics, telecommunications, automatic control and electrical power.

FOR FURTHER INFORMATION:

Dr. J.C. Fisher,Head,Department of Control Systems and Electrical Engineering.Telephone: 757541 ext. 243



Thomas Long, who is currently enrolled in the third year of the Honours Diploma course in Electrical/Electronic Engineering, was employed for eight weeks in the 1990 summer vacation by Nuclear Electric Plc. of Bristol. His work involved the development of a computer programme for an alarm system in one of the generating plants.

Following completion of this summer job, Nuclear Electric agreed to sponsor Thomas for his remaining two years in College.

COLLEGE CODE: WCE

DURATION:

Five wholetime academic terms.

DESCRIPTION OF COURSE:

This course covers certain subjects of the Engineering Council's Part II Examination (previously the CEI Part II Examination) for students who have completed an approved Technician Engineer Diploma Course.

This professional qualification in electronic and communications engineering is fully degree equivalent.

ENTRY REQUIREMENTS:

Intending Students must have successfully completed an approved Technician Engineering Course, and must have passed or obtained exemption from the Engineering Council's Part I Examination.

APPLICATION PROCEDURE:

Applications should be made directly to:

The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE: 1st September

COURSE OF STUDY:

Mathematics, Electromagnetic Fields and Circuits, Electronic Engineering, Computer Engineering, Communication Engineering, The Engineer in Society, Project. Laboratory and course work are included where appropriate.

EXAMINATION PROCEDURE:

The Engineering Council's Part II Examination in the following subjects. The Engineer in Society; Mathematics; Fields and Circuits; Electronic Systems Engineering, Communication Systems Engineering; Computer Systems Engineering, Physical Electronics, Project.

Further information on the Engineering Council Examination may be obtained from:

The Engineering Council, Examinations Department, 2nd Floor, Savoy Hill House, Savoy Hill, London WC2R 0BU.

FOR FURTHER INFORMATION:

Mr. B.J. O'Connor CEng MIEE, Head,

Department of Electronic and Communications Engineering. Telephone: 757541 ext. 225

Mr. Robert Halligan and Mr. Mark Dorman look on, as Mr. Michael McCabe tries a prototype of the K2 Keyboard Emulator, developed by Mr. Barry Redmond, Department of Electronic and Communications Engineering, in co-operation with the Central Remedial Clinic in Dublin.



DURATION:

Two years, three or four evenings per week.

DESCRIPTION OF COURSE:

This is a two-year evening course leading to the Engineering Council's Part I Examination. The scope and standard of this examination is not less than that of an examination set at a point about one third through a full-time engineering degree course.

ENTRY REQUIREMENTS:

Applicants must have successfully completed an approved Certificate or Technician course in the electrical/electronic field,

or

be in possession of a qualification which the College deems to be equivalent to the above.

APPLICATION PROCEDURE:

Applications should be made directly to:

Department of Control Systems and Electrical Engineering, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol.

CLOSING DATE:

19th September

COURSE OF STUDY:

Candidates for the Part I Examination must satisfy the examiners in six subjects, four compulsory subjects and two optional subjects from a list of four. The course covers the four compulsory subjects: Presentation of Engineering Information, Mathematics, Mechanics and Properties of Materials and two of the optional subjects, Electrotechnics and Electronics.

The PETRA Project

FOR FURTHER INFORMATION:

Mr. J.J. Farrell MSc CEng FIEI MIEE, Assistant Head, Department of Control Systems and

Electrical Engineering.

Telephone: 757541 ext. 261

(Details on facing page)



DURATION:

Two years, three or four evenings per week.

DESCRIPTION OF COURSE:

This is a two year evening course leading to the Engineering Council's Part II Examination. The minimum pass standard of this examination is set to be not less than that of a full-time engineering degree.

ENTRY REQUIREMENTS:

Applicants must have passed, or have gained exemption from the Engineering Council's Part I Examination.

APPLICATION PROCEDURE:

Application should be made directly to:

Department of Control Systems and Electrical Engineering, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

19th September

COURSE OF STUDY:

The Part II Examination is in 3 parts:

- (i) Part II(a) in which the candidate must satisfy the examiners in an approved selection of five subjects chosen from various fields of engineering.
- (ii) Part II(b), a compulsory paper, The Engineer in Society.

(iii) Part II(c), a project.

In addition, candidates must show the examiners that they have satisfactorily completed laboratory and/or course work appropriate to the subjects which they have attempted. The College offers courses in nine of the subjects for Part II(a) and a course for Part II(b).

Candidates who successfully complete the entire Part II Examination are eligible for corporate membership of professional engineering institutions.

FOR FURTHER INFORMATION:

Dr. J.C. Fisher, Head,

Department of Control Systems and Electrical Engineering. Telephone: 757541 ext. 243

The PETRA Project (facing picture)

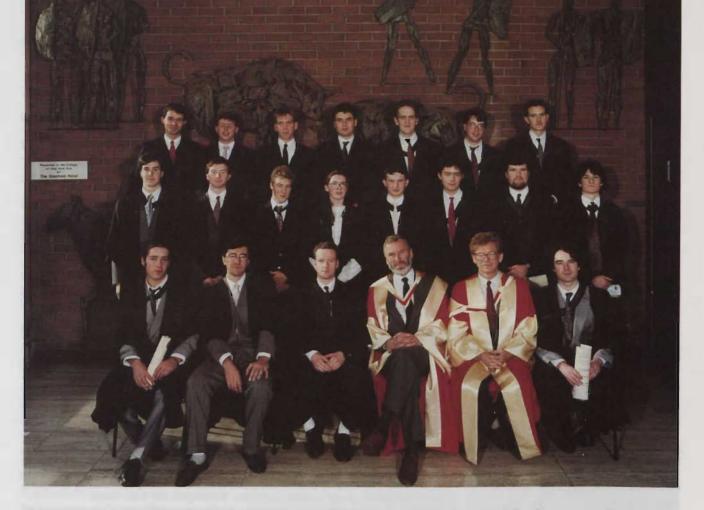
PETRA is the acronym for Partnership in Education and Training and is the European action programme for the vocational training of young people and their preparation for adult and working life. The programme is intended to establish a European Network of training initiatives to produce transnational, co-operative partnerships aimed at raising the standards and quality of vocational training and enhancing the capacity of vocational training systems to adapt to economic, technological and social change.

The Department of Electronic and Communications Engineering has established a partnership with the Deutsche Bundespost TELEKOM and a pilot programme of student exchange is planned during 1991. Six Irish technician students from the College spent one month in Germany during June/July to experience the training methods employed by the Deutsche Bundespost TELEKOM. During September, sixteen technician trainees from the Deutsche Bundespost TELEKOM took part in a one-month technical project in the College.

It is intended to extend the scope of this exchange during 1992.

The Photograph shows, from left to right: Herr Hans Kullmann, PETRA project director, Deutsche Bundespost TELEKOM, Mr. Bart O'Connor, Head, Department of Electronic and Communications Engineering, and Mr. Frank Brennan, Principal, DIT Kevin Street during a visit by Herr Kullmann in April 1991.

Herr Kullmann was accompanied on the visit by 3 colleagues from the Deutsche Bundespost TELEKOM.



The Technician Engineering Diploma Course in Electrical Engineering (Ref. DT 231) has been running in the College for some twenty-five years, during which time it has developed to provide a broad coverage of modern electrical and control systems engineering. Graduates of the course have taken up employment in a wide range of engineering activities including power electronics, computers, instrumentation and electrical supply and distribution. In addition, a number of graduates transfer each year to the Honours Diploma in Electrical/Electronic Engineering (Ref. FT21) to continue their studies to degree level. The photograph shows some of the 1990 graduates together with some of the staff from the Department of Control Systems and Electrical Engineering.

Back Row, left to right: Neil Wisdom, Brian Fagan, Edwin Kelly, David Stynes, Stephen Mahon, Damian Roche, Joseph Griffin.

Centre Row, left to right: Eamonn Dargan, Patrick Berrigan, Cathal Feeney, Frances Walsh, Michael Kelly, Andrew DeMangeat, Paul O'Hare, Brian Clancy.

Front Row, left to right: Ben Conroy, Mr. Colm Murray, Enda Sullivan, Dr. Jonathan Fisher, Dr. Richard Hayes, Colm Maguire.

CAS CODE: DT 231 (DT 47 for 1991)

COLLEGE CODE: WEET

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

This is an advanced-level technician course in modern Electrical Engineering. In the early stages, a broad base of electrical engineering science is established and this is then followed by a detailed study of Electrical Power Systems, Power Electronics and Automatic Control Systems and Instrumentation. Graduates of this course with a Distinction grade in the Diploma are eligible to apply for entry to the third year of the Honours Diploma course in Electrical/Electronic Engineering (Ref: DT 221). The Diploma is recognised by the Engineering Council (London) and graduates are given exemption from the Council's Part I Examination.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects with Grade B or higher in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a Science subject. Where endorsement subjects are not offered in the trade

examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Applied Mechanics, Physics, Engineering Drawing, Mechanical Workshops, Principles of Electricity, Electronics, Electrical Power, Computer Applications, French, German or Spanish.

SECOND YEAR:

Mathematics, Field and Circuit Theory, Electrical Power, Electronics, Control Systems and Instrumentation, Engineering Systems, Business Studies, French, German or Spanish.

THIRD YEAR:

Mathematics, Field and Circuit Theory, Electrical Power, Electronics, Control Systems and Instrumentation, Engineering Project, Business Studies, French, German or Spanish.

AWARD:

Graduates are eligible for the following award:

Technician Engineering Diploma – Electrical Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

As this is a broadly based course graduates take employment in a wide range of activities such as Electrical Supply, Instrumentation and Control, Computing and Consulting.

FOR FURTHER INFORMATION:

Mr. J.J. Farrell MSc CEng FIEI MIEE,
Assistant Head,
Department of Control Systems and
Electrical Engineering.
Telephone: 757541 ext. 261

TECHNICIAN CERTIFICATE IN ELECTRONICS (AVIONICS)

CAS CODE: DT 285

COLLEGE CODE: WRAL

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

This course is designed to provide a qualification at Certificate level for students who are employed as trainee electronics/communications technicians in the avionics industry.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects which must include Mathematics and English

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations will be an acceptable equivalent

or

(c) Such qualifications as the College may deem equivalent.

Selection for students entering this course is made by the employer subject to the requirements of (a), (b) and (c) above.

APPLICATION PROCEDURE:

· Applicants must be employed in the

Aviation industry, and applications must be made directly to this College by the employer.

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital Electronics, Electrical Draughting, Communication Systems, Computer Programming, Avionics, Project.

SECOND YEAR:

Mathematics, Electricity, Circuit Theory, Digital and Analogue Electronics, Communication Principles, Avionics.

AWARD:

Graduates of this course are eligible for the following award:

Technician Certificate in Electronics (Avionics) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley,
Assistant Head,
Department of Electronic and Communications Engineering.
Telephone 757541 ext. 240 The College provides two three-year diploma courses in Electronic and Communications and Computer Engineering, one leading to the DIT Technician Engineering Diploma in Telecommunications and Electronics, DT 286 (WRTT), the other to the DIT Technician Diploma in Electronic Engineering DT 288 (WRS).

A common first year, Course Code DT 287 (WRS/WRTT), has been provided for both of these courses. On successful completion of this first year, students proceed over the following two years to study for either the DIT Technician Engineering Diploma in Telecommunications and Electronics, Course Code DT 286 (WRTT), see page 77, or for the DIT Technician Diploma in Electronic Engineering, Course Code DT 288 (WRS), see page 79.

The particular course of study open to students in these two subsequent years will be determined by the College having regard to performance in the first year examinations and, if necessary, in an interview.



The present Department of Electonic and Communications Engineering has its origins in the courses in radio communications which were first introduced in the College in 1918. At the present time the Department is involved in a wide range of academic activities, extending from the provision of part-time technician courses to post-graduate research directed towards MSc awards from the University of Dublin. During this intervening period the developments in electronics followed each other at an ever increasing pace, resulting in dramatic changes in the electronics industry, and the Department has evolved a policy of growth and development to meet the ever-changing industrial need.

The most significant strand in this policy concerns the undertaking of industrial research and contracts and much of the research effort in the Department now focuses on this activity. This policy is actively supported by Eolas and there are at present two Higher Education Industry Co-operation (HEIC) contracts being undertaken in the Department with a total funding in excess of £350,000. Industrial linkages of this form are seen as being of paramount importance and vital to the ongoing development of the Department. Further work in this area is being actively pursued.

Mark Shankey (left), a research engineer, discusses the organisation of a computer-based measurement system with Mr. John Dalton (centre), Lecturer in Microprocessor System Design. Mr. Eamonn Skelly (right), Senior Technician, provides support.

TECHNICIAN ENGINEERING DIPLOMA IN TELECOMMUNICATIONS & ELECTRONICS TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

(Common First Year Course)

CAS CODE: DT 287 (DT 48 for 1991)

COLLEGE CODE: WRS/WRTT

DESCRIPTION OF COURSE:

This common first year is designed to provide a foundation from which students may progress either via Course DT 286 (WRTT) to the Technician Engineering Diploma in Telecommunications and Electronics, or via Course DT 288 (WRS) to the Technician Diploma in Electronic Engineering.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects with grade B or higher in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Such qualifications as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

Mathematics, Mechanics, Engineering Science, Electricity, Electronics, Computer Programming, Engineering Drawing, Electronic Components and Materials, Electronic Workshop Practice, Industrial Studies, Technical French or Technical German.

FOR FURTHER INFORMATION:

Mr. B.J. O'Connor CEng MIEE,
Head,
Department of Electronic and
Communications Engineering.
Telephone: 757541 ext. 225

OI

Mr. C.V. Cowley DipEE CEng MIEI MIEE, Assistant Head, Department of Electronic and Communications Engineering. Telephone: 757541 ext. 240 CAS CODE: DT 286 (DT 48A for 1991)

COLLEGE CODE: WRTT

DURATION:

This course is of three years duration. The first year is also common to Course DT 288 (WRS). Details of the first year of this course, DT 287 (WRS/WRTT) are set out on page 76.

ENTRY REQUIREMENTS:

Please see page 76.

APPLICATION PROCEDURE:

Please see page 76.

DESCRIPTION OF COURSE:

This course is designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

The course has a strong analytical content, the overall emphasis is applied, and is design orientated.

Graduates are granted exemption from Part I of the Engineering Council Examination (previously the Council of Engineering Institutions Examination). Students, who obtain a grade of Distinction in the Diploma Examinations are eligible to apply for entry into the third year of the Honours Diploma Course in Electrical/Electronic Engineering (Code DT 221: FT 21: SEE).

COURSE OF STUDY:

SECOND YEAR:

Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, Electronic Draughting, Technical French or Technical German.

THIRD YEAR:

Mathematics, Physics, Circuit Theory, Analogue and Digital Electronics, Computer and Microprocessor Systems, Communications Engineering, Industrial Studies, Technical French or Technical German. Integrated Circuit Fabrication is offered as an optional subject.

AWARDS:

Graduates of this course are eligible for the following award:

Technician Engineering Diploma – Telecommunications and Electronics (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

A Supplementary Certificate in Integrated Circuit Fabrication is awarded to graduates who are successful in a special examination in this optional subject.

CAREER OPPORTUNITIES:

Graduates have career opportunities over the full extent of the electronics, telecommunications and computer industry in a very wide range of positions.

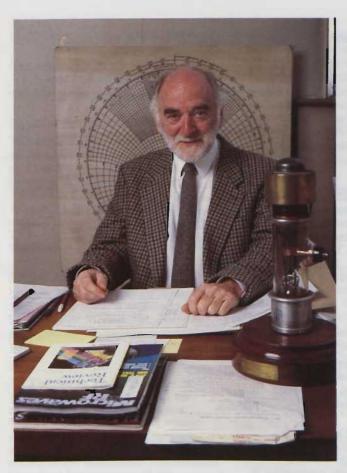
FOR FURTHER INFORMATION:

Mr. B.J. O'Connor CEng MIEE, Head, Department of Electronic and Communications Engineering.

Telephone: 757541 ext. 225

or

Mr. C.V. Cowley DipEE CEng MIEI MIEE, Assistant Head, Department of Electronic and Communications Engineering. Telephone: 757541 ext. 240



Mr. B.J. O'Connor retires this year as Head of the Department of Electronic and Communications Engineering after thirty-eight years' service to the College. Bart O'Connor's contact with the College dates back to the mid 1940s when he came to study radio engineering. Indeed this was the only institute in the country at that time where this particular discipline could be pursued. It is interesting to record that he was a student of Hugh de Lacy and he graduated with distinction, being awarded the prodigious Gold Medal of the Institute of Electronic and Radio Engineers.

He left Ireland in 1951 and joined Pye Ltd in Cambridge as a development engineer. His interest in medical electronics prompted a move to the Biophysics Department of Hammersmith Hospital in 1953 where he worked on the design of systems for foetal heart monitoring.

Bart O'Connor returned to Ireland in 1954 to take up a full-time post as 'Higher Technological Teacher Grade III', later to become the Lecturer I grade, at the 'Institute of Science and Technology' as the College was then known. He was appointed Head of the Department of Telecommunications Engineering in 1963.

It is undoubtedly the case that the Department of Electronic and Communications Engineering, in its present form, has its roots in this period. It was in the mid 1960s that Bart O'Connor, building on the work of Hugh de Lacy, courageously pioneered the introduction of three-year wholetime technician programmes, contrary to the perceived wisdom of the industrial sector at that time. These courses were later used as models when the Regional Technical Colleges were established and Bart O'Connor played a significant role in advising on the structure of these colleges.

However, he did not sever his links with industry when he joined the College. He was co-founder of Telecoma Teo in 1968 and acted as Technical Director of the Company until 1974. During that time he developed innovative equipment for the inspection of translucent containers and holds several patents relating to his work in this area.

As Head of Department, Bart O'Connor was closely involved in many of the educational developments in electronics of the 1970s and 1980s. He has the distinction of being the first chairman of the Academic Council of the Dublin Institute of Technology, a post which he held for some seven years. CAS CODE: DT 288 (DT 48B for 1991)

COLLEGE CODE: WRS

DURATION:

This course is of three years duration. The first year is also common to Course DT 286 (WRTT). Details of the first year of this course, DT 287 (WRS/WRTT) are set out on page 76.

ENTRY REQUIREMENTS:

Please see page 76.

APPLICATION PROCEDURE:

Please see page 76.

DESCRIPTION OF COURSE:

The theoretical and practical content of this course is designed to provide a sound technical education for students preparing for careers as technicians in the production, testing, installation and maintenance, and sales of electronic, communications and computer equipment.

The subjects covered on the course include Mathematics, Analogue and Digital Electronics, Communications Engineering and Computer Systems, but Measurements, Measuring Methods and Instruments form the unifying core for the different areas of study.

COURSE OF STUDY:

SECOND YEAR:

Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, Electronic Draughting, Technical French or Technical German.

THIRD YEAR:

Mathematics, Electronic Circuits, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Industrial Studies, Technical French or Technical German.

AWARDS:

Graduates of this course are eligible for the following award:

Technician Diploma in Electronic Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Because of the breadth of coverage provided, career opportunities for the technician graduate are correspondingly wide, covering the whole electronics production industry, radio and television broadcasting, computer manufacture and maintenance, medical electronic equipment, communications and navigation systems.

FOR FURTHER INFORMATION:

Mr. B.J. O'Connor CEng MIEE,
Head,
Department of Electronic and
Communications Engineering.
Telephone: 757541 ext. 225

or

Mr. C.V. Cowley DipEE CEng MIEI MIEE, Assistant Head, Department of Electronic and Communications Engineering. Telephone: 757541 ext. 240 CAS CODE: DT 289 (DT 49 for 1991)

COLLEGE CODE: WRCE

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

This is a broadly based course avoiding any narrow specialisation but with an approach which emphasises the practical/applied aspects of the subjects and utilises a less demanding level of analysis.

The course is organised to provide a qualification at Certificate level for those students who are preparing to work as production or maintenance technicians in the electronics industry.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects which must include Mathematics with a minimum level of Grade C at Ordinary Level, and English.

OF

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital Electronics, Electrical Draughting, Communication Systems, Computer Programming, Project.

SECOND YEAR:

Mathematics, Electricity, Circuit Theory, Digital and Analogue Electronics, Communication Principles, Computer Systems, Computer Programming, Project.

AWARD:

Graduates of this course are eligible for the following award:-

Technician Certificate in Electronics (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates of the course are qualified to take up employment as technicians across the spectrum of the electronics, telecommunications and computer industries in the production, service and applications sectors.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley DipEE CEng MIEI MIEE, Assistant Head, Department of Electronic and Communications Engineering. Telephone: 757541 ext. 240 COLLEGE CODE: PET

DURATION:

Four years part-time

ATTENDANCE REQUIREMENTS:

One full day and three evenings per week during the first three years: four evenings per week during the final year.

ENTRY REQUIREMENTS:

- (a) Students must be employed in the Electrical Engineering field and
- (b) Must have a Pass in English, Pass in Mathematics (or Applied Mathematics) and a Pass in three other subjects in the Leaving Certificate Examination

or

(c) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

COURSE OF STUDY:

The technological subjects include Generation and Transmission, Utilization, Control and Instrumentation, Applied Electronics, Circuit Theory. The course also includes Mathematics, Physics and English.

APPLICATION PROCEDURE:

Application should be made directly to:

Department of Control Systems and Electrical Engineering, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol.

CLOSING DATE: 20th September.

EXAMINATIONS:

Students will sit College examinations at the end of each session. In addition students may take the Electrical Engineering Practice Examinations of the Department of Education or of City and Guilds of London Institute.

AWARD:

Graduates of this course are eligible for the following award:

Electrical Technicians' Certificate (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

FOR FURTHER INFORMATION:

Mr. J.J. Farrell MSc CEng FIEI MIEE,
Assistant Head,
Department of Control Systems & Electrical Engineering.
Telephone 757541 ext. 261

DURATION:

Four years part-time, one day per week in years 1 to 3, plus two evenings per week in the 4th year.

DESCRIPTION OF COURSE:

This is a part-time release course designed to prepare students for the Part 1, 2 and 3 Examinations of the City and Guilds of London Institute Electronic Servicing Course 224, and the EEB practical examinations.

In the 2nd, 3rd and 4th years, the course is divided into two streams, Industrial Electronics and Radio and Television.

The Industrial Electronics stream covers –

- (i) Digital Techniques
- (ii) Microprocessor Computer Systems
- (iii) Electronic Measurement and Control, and
- (iv) Electronic Instruments and Testing.

The Radio and Television stream covers -

- (i) Television Reception
- (ii) Video Recording and Playback
- (iii) Radio and Audio Systems, and
- (iv) Digital Techniques.

ENTRY REQUIREMENTS:

A pass in the Leaving Certificate of the Department of Education, with Maths and English as essential subjects.

Prospective students MUST be employed

as trainees or apprentices in the electronics or telecommunications industry.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday, 9th September 1991 to enrol.

CLOSING DATE:

19th September

CONTENT:

The course subjects include Electricity, Electronics, Radio, Television, Measurement and Control Systems, together with Mathematics and Electronic Workshop Practice.

A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.

EXAMINATIONS:

The Part 1 Examination is taken at the end of the first year.

The Part 2 Examination is taken at the end of the third year.

The Part 3 Examination is taken at the end of the fourth year.

Each of the three parts includes a practical examination which is set by the Electronics Examination Board of London.

An internal College examination is set at the end of the second year of the course.

FOR FURTHER INFORMATION:

Mr. V. Thorne FTC(CGLI) MRGC RadarCert MIElectIE, Department of Electronic and Communications Engineering. Telephone 757541 ext. 237

At the presentation of External Awards on the 1st February, 1991, Malachi John Jones (centre) had the distinction of being presented with two silver medals. The medals were awarded by the City and Guilds of London Institute in recognition of his obtaining first place in the Institute's Electrical Principles (T3) and Microelectronic Systems (T3) examinations. Malachi Jones is a student of the Telecommunications Technicians' evening course.



Photograph shows, left to right: Mr. Michael Gara, Course Director, Malachi John Jones and Mr. Cathal Sheridan, Course Lecturer in Electrical Principles.



The CEDA Award

The Council of CEDA, the Consumer Electronics Distributers Association, has announced a College — Industry Co-operative scheme under which the industry will make a donation to the Dublin Institute of Technology, Kevin Street each year of equipment which is representative of the latest developments in consumer electronics. In addition the Council has inaugurated the award of a Trophy and Certificate of Excellence to honour the Young Service Engineer of the Year. The scheme was launched on Friday, 15th February, 1991 by the Minister for Education, Mary O'Rourke TD, at a formal ceremony in DIT Kevin Street. Mr. Terry Byrne, a graduate of the Electronic Servicing Course in the College and a service engineer with RTV Rentals, was presented with the inaugural trophy and certificate.

The photograph shows, from left to right: Mr. F.M. Brennan, Principal, DIT Kevin Street, Mr. Terry Byrne, the 1990 recipient of the CEDA Award, Mrs. Mary O'Rourke TD, Minister for Education, and Mr. John McInerney, Chairman, CEDA.

DURATION:

Five years, evening

DESCRIPTION OF COURSE:

This course is appropriate for those who are employed in industry and who are involved in the maintenance and repair of electronic equipment, and in particular of equipment employing microprocessors.

The course is designed to provide a broad general introduction to both analogue and digital electronics, and a detailed treatment of the practical aspects of microcomputer technology.

ATTENDANCE REQUIREMENTS:

Attendance at the College is required on two evenings per week.

ENTRY REQUIREMENTS:

Entry to the course is restricted to those who are employed in the maintenance of electronic equipment.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday, 9th September, 1991 to enrol.

CLOSING DATE:

19th September

EXAMINATIONS:

At the end of the second year students will be eligible to sit for Part I of the

City and Guilds of London Institute MICROCOMPUTER TECHNOLOGY (223) Certificate Examinations.

At the end of the fourth year students will be eligible to sit for Part II of the City and Guilds of London Institute MICROCOMPUTER TECHNOLOGY (223) Certificate Examinations.

At the end of the fifth year students will be eligible to sit for Part III of the City and Guilds of London Institute MICROCOMPUTER TECHNOLOGY (223) Certificate Examination in System Design and Fault-finding.

Internal College examinations are taken at the end of the first and third years of the course.

FOR FURTHER INFORMATION:

Mr. V. Thorne FTC(CGLI) MRGC RadarCert MIElectIE, Department of Electronic and Communications Engineering. Telephone 757541 ext. 237

DURATION:

Five years - evening

DESCRIPTION OF COURSE:

This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 Examinations of the City & Guilds of London Institute Course 271 (Telecommunication Technicians' Certificate).

The first two years complete the requirements for the Part 1 Examination. A further two years are required to complete the requirements for the Part 2 Examination.

Over these four years attendance at the College is required on four evenings (12 hours) per week.

A further year, with attendance on four evenings (12 hours) per week, completes the course requirements for the Part 3 examination.

ENTRY REQUIREMENTS:

Irish Leaving Certificate in five subjects which must include Mathematics and English at either level, or such qualification as the College may deem equivalent. An entrance selection test may be set.

EXAMINATIONS:

PART I (TI):

Mathematics T1, Physical Science T1, Telecommunications Systems T1, Communication Studies T1.

PART 1 (T2):

Mathematics T2, Electrical Principles T2, Electronics T2 with either Radio and Transmission T2 or Microelectronic Systems T2.

PART 2 (T3):

Mathematics T3, Electrical Principles T3, Electronics T3 with either Radio T3 or Microelectronic Systems T3.

PART 2 (T4):

Mathematics T4, Circuit Theory T4, Electronics T4 with *either* Radio T4 *or* Microelectronic Systems T4.

PART 3 (T5):

Telecommunications Principles T5 and Mathematics T5, with one of the following: Microelectronic Systems T5, Microwave Radio T5 or Digital Transmission Networks T5.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on the following dates to enrol: Year 1 – Monday, 9th September, 1991; Years 2/3 – Monday 16th September 1991; Years 4/5 – Tuesday 17th September 1991.

CLOSING DATE:

19th September

AWARD:

The Full Technological Certificate for Telecommunications Technicians is awarded to a candidate who is at least 21 years of age, *and* who has

successfully met the full requirements for the modular Part 1, Part 2 and Part 3 Certificates and who has had relevant industrial experience.

The Full Technological Certificate is accepted by the Engineering Council's Board for Engineers' Registration as exemplifying the academic standard required for registration as Incorporated Engineer (IEng).

CAREER OPPORTUNITIES:

The City and Guilds of London Institute has over many years conducted examinations in Electronics and Telecommunications which have set the standards in providing widely accepted routes to technician qualifications by means of part-time study.

The Course 271 certificate examinations, with the range of option subjects available, offer a qualification which prepares students for positions as technicians in virtually all sections of the electronics and telecommunications industry.

FOR FURTHER INFORMATION:

Mr. M. Gara TEng(CEI) FTC(CGLI), Department of Electronic & Communications Engineering, Telephone 757541 ext. 303

DURATION:

Two years, evening.

DESCRIPTION OF COURSE:

This course is directed specially towards electricians who require an understanding of industrial electronic principles and equipment. The course provides an introduction to the principles of analogue and digital electronics and treats selected industrial applications.

ENTRY REQUIREMENTS:

Entry to the course is restricted to those who are employed as electricians and who have completed a recognised electrical apprenticeship, and who hold as a minimum the Senior Trade Certificate of the Department of Education in Electrical Installation Work.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol.

CLOSING DATE:

19th September

FOR FURTHER INFORMATION:

Mr. V. Thorne FTC(CGLI) MRGC
 RadarCert MIElectIE,
 Department of Electronic and
 Communications Engineering.
 Telephone 757541 ext. 237

£100,000 Donation of Equipment to the Dublin Institute of Technology, Kevin Street (facing picture)

CARA Dataprocessing Ltd have announced a major £100,000 donation of computer and communications equipment to the Department of Electronic and Communications Engineering, DIT Kevin Street.

The company has committed itself to the equipping of a fully networked laboratory over the next eighteen months. The first phase of this programme was launched at a formal presentation in the CARA headquarters on Wednesday, 4th October, 1990. A system, comprising a Compaq Systempro 486, Novell Netware 386, Microsoft Windows and a Mannesmann Tally 906 Laser Printer were accepted on behalf of the College by the Minister for Science and Technology, Mr. Michael Smith.

In his address, Mr. Paddy McNamara, Managing Director of CARA, said: 'We are very much aware of the social responsibility which a company like ours has to the youth of today and together with our suppliers, Compaq, Mannesmann Tally, Racal-Milgo, Timeplex, NEC, Novell and Microsoft, we are pleased once again to make a contribution to our friends in DIT Kevin Street.'

He continued: 'Industry must invest in tomorrow's skill base to ensure continuity and progress and it is especially important that young people learning in a computer environment have the most up-to-date hardware/software at their disposal, which we and our suppliers are pleased to provide'.

In his reply, Mr. Frank Brennan, Principal of the College, said: '. . . This presentation reflects the recognition by CARA of the calibre and relevance of our work and the importance the company attaches to such industry/higher education linkages.'

He continued: 'We must not underestimate, nor understate, the importance of linkages with industry such as this which has been established with CARA and the mutual benefits which accrue. But I go further, quite simply these linkages are vital to the continued growth of the College as a centre for teaching and for research and development in the domain of higher technology.'

This was the second occasion in the span of two years that CARA have made such a significant contribution of equipment to the Dublin Institute of Technology, Kevin Street. The company's contribution over this period amounts to £150,000. It is perhaps significant to report that CARA presently employs 32 graduates of the College, including 3 Senior Managers, on its 200 strong staff.

The photograph shows, from left to right: Mr. Paddy McNamara, Managing Director, CARA, Mr. Michael Smith TD, Minister for Science and Technology, and Mr. Frank Brennan, Principal, Dublin Institute of Technology, Kevin Street.

DURATION:

Three years - evenings.

DESCRIPTION OF COURSE:

The first year of the course provides a foundation in microelectronics and microprocessors; the second and third years treat of more advanced topics in the application of microprocessors.

ATTENDANCE REQUIREMENTS:

In all three years of the course, attendance is required at the College for two evenings per week.

ENTRY REQUIREMENTS:

Entry to the Course is restricted to those who have as a minimum a recognised technician qualification in Electronics and who can produce evidence of having successfully completed a course in microelectronics of a level corresponding to that of the first year.

Direct entry to the second year of the course will be permitted for those who can produce evidence of having successfully completed a course in digital electronics of a level corresponding to that of the First Year.

APPLICATION PROCEDURE:

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol in 1st year, and on Thursday, 12th September 1991 to enrol in 2nd and 3rd years of the course.

CLOSING DATE:

19th September

FOR FURTHER INFORMATION:

Mr. J. Dalton BE MEngSc, Department of Electronic and Communications Engineering. Telephone 757541 ext. 266

Donation of Equipment to DIT Kevin Street

(Details on facing page)



DURATION:

Four years - three or four evenings per week.

DESCRIPTION OF COURSE:

An evening course which prepares students for the Electrical Engineering Technicians' scheme of the City and Guilds of London Institute.

ENTRANCE REQUIREMENTS:

Prospective students must:

- (i) be employed in the electrical industry;
- (ii) have passed the Leaving Certificate with Physics or have an approved alternative qualification in the Electrical Trade.

COURSE CONTENT:

YEAR 1:

Mathematics, Mechanics, Electrical Engineering Principles, Engineering Graphics.

YEARS 2 & 3:

Mathematics, Mechanics, Field and Circuit Theory, Electrical Power, Electronics.

YEAR 4:

Advanced Electrical Technology, Utilisation of Electrical Energy, Control Systems Engineering or Microprocessors.

Laboratory work is included in all years of the Course.

EXAMINATIONS:

Electrical Engineering Technicians (803) of the City and Guilds of London Institute.

YEAR 1: Part I.

YEAR 2: Part II with Power Option.

YEAR 3: Electronics Option of Part II.

YEAR 4: Part III with the Utilisation of Electrical Energy and Control Systems Engineering or Microprocessors Options.

Department of Education:

YEAR 4:

Advanced Electrotechnology and Electrical Engineering Practice (Section B – Advanced Stage).

APPLICATION PROCEDURE:

Application should be made directly to:

Department of Control Systems and Electrical Engineering, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol.

CLOSING DATE:

19th September

FOR FURTHER INFORMATION:

Mr. J.J. Farrell MSc CEng FIEI MIEE, Assistant Head, Department of Control Systems & Electrical Engineering. Telephone 757541 ext. 261 CAS CODE: DT 255 (DT 38 for 1991)

COLLEGE CODE: WLBS

DURATION:

Two/Three years wholetime.

DESCRIPTION OF COURSE:

The content and the structure of this course are intended to provide students with a thorough training and competence in modern languages and in business studies to enable them to meet the requirements of the business world for highly-trained and adaptable personnel in the context of the greater mobility and harmonisation that is to be the hall-mark of the 1990's.

The course includes a mandatory three months' stay by the student in the country of his major language; during the stay abroad the student will research and prepare a business-based project, thus integrating the language and business components of the course.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects, including English and Mathematics with Grade C or higher on the Higher Level papers in French or German or Spanish.

or

(b) such qualification as the College may deem equivalent.

Note: Because of the large numbers seeking entry, a much higher standard is necessary, in practice, to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Six subjects:

Language Major: French or German or Spanish.

Language Minor: Italian or Russian or Portuguese.

Business Studies: Accounting and Finance, Office Administration and Management, Managerial Economics,

Business Statistics. European Studies. English for Business. Keyboard Skills.

SECOND YEAR:

Six Subjects:

Language Major: Continued from Year One.

Language Minor: Continued from Year One.

Business Studies: Management I, Marketing and Enterprise Development I, Business Law, Export Management. European Studies. English for Business.

Computer Applications.

THIRD YEAR:

Four Subjects:

Language Major: Continued from Year 2.
Language Minor: Continued from Year 2.
Business Studies: Two core subjects:
European Law, Management II and
One optional subject from Financial
Management, Marketing and
Enterprise Development II, Personnel
Administration, Taxation.
Computer Applications.

Note: It may not be possible to offer all options – in languages and in business – every year.

AWARD:

Graduates of this course are eligible for the following award:

Certificate/Diploma in Languages and Business Studies (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

The course is designed to prepare students to work as highly trained and adaptable personal assistants, executive or administrative assistants in business and industrial areas which have a European or international orientation requiring dynamic personnel who combine thorough language competence with a sound working knowledge of business practice.

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies. Telephone 757541. COLLEGE CODE: PLAL

DURATION:

One year evening course

DESCRIPTION OF COURSE:

A post-graduate course in applied linguistics for teachers of modern languages or English as a foreign language, leading to the award of a Post-Graduate Diploma in Applied Linguistics. The course is primarily intended for experienced graduate teachers of French, German or English. It is designed to allow them to examine and evaluate their language teaching in the light of linguistic theories and is not intended as a practical course in language teaching methodology, except

for the component related to the teaching of English as a foreign language.

ENTRY REQUIREMENTS:

- (i) A primary degree in a modern European language or in English.
- (ii) Minimum two years' experience of teaching German or French or English. Applications will be considered from graduates in other European languages.

ATTENDANCE REQUIREMENTS:

Two evenings per week.

APPLICATION PROCEDURE:

Applications should be made directly to: Head, Department of Languages and Industrial Studies, Dublin Institute of Technology, Kevin Street, Dublin 8. Applicants should attend in person at the College in Room A315 from Monday 9th September to Thursday 12th September 1991 between 18.30 and 20.00 hrs to enrol. Students should provide three passport-size photographs for registration purposes.

CLOSING DATE: 12th September

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies. Telephone 757541.

The Annual Memorial Mass for deceased staff and students of the College and their families was held in the Gleeson Hall on November 25th, 1990. The mass was concelebrated by Frs. Brendan Staunton, Ronan Geary and Brendan Murray SJ and the music was lead by Sr. Fiona McSorley OP and the College Folk Group. Sandra Doran (WRTT 2) sang the responsorial psalm and Ray Murray (WBD 2) the communion reflection.

The photograph shows Mr. Chris Cowley, Department of Electronics and Communications Engineering, Mrs. Maureen Lawless, wife of Terry RIP, the McNamara family, Aine Williams (WSAD 2), Realtin and Aindreas Ahern participating in a symbolic Offertory Procession.



COLLEGE CODE: PDT

DURATION:

One year evening course, January to November.

DESCRIPTION OF COURSE:

A course in translation techniques and practice leading to the Diploma in Translation offered by the Institute of Linguists Education Trust.

ENTRY REQUIREMENTS:

Either

(a) A university degree in French, German, Spanish or Italian or

(b) A recognised equivalent.

ATTENDANCE REQUIREMENTS:

Two evenings per week.

APPLICATION PROCEDURE:

Applications should be made directly to:
Head,
Department of Languages and
Industrial Studies,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

Applicants should attend in person at the College between 18.30 and 20.00 hrs on Monday 9th September 1991 to enrol.

CLOSING DATE:

29th November

CAREER OPPORTUNITIES:

The graduates of this course may find opportunities to work as translators either with many international organisations or with companies mainly concerned with exporting to Europe.

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies. Telephone: 757541

Ag seoladh 'NEODRACHT na hÉIREANN sa RÉ NÚICLÉACH', leabhar nua de chuid Dr. Matt Hussey, Ceann ar Roinn na Fisice, ar 11 Nollaig 1990 bhí, ó chlé, an Príomhoide, an t-Uasal Frank Brennan, an foilsitheoir Pádraig Ó Snodaigh, an t-Aire Stáit um Eolaíocht agus Teicneolaíocht, Michael Smith TD agus Dr. Hussey.



COLLEGE CODE: PCLL

DURATION:

One year evening course.

DESCRIPTION OF COURSE:

A course in the practical use of a foreign language, oral proficiency and the background knowledge of the country of the foreign language. The languages offered are French, German, Spanish, Italian and Russian. Students may decide to take examinations such as those set by a Chamber of Commerce, the Institute of Linguists or the Royal Society of Arts.

ATTENDANCE REQUIREMENTS:

Two evenings per week.

ENTRY REQUIREMENTS:

- (a) For level 1: No previous knowledge of the language required.
- (b) For level 2: Leaving Certificate or the equivalent in the modern language.
- (c) For level 3: University degree or a recognised equivalent qualification in the language.

APPLICATION PROCEDURE:

Applications should be made directly to: **Head**,

Department of Languages and Industrial Studies, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College in Room A315 between 18.30 and 20.00 hrs from Monday 9th September to Thursday 12th September 1991 to enrol.

CLOSING DATE:

12th September

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies. Telephone: 757541.

Shaw Summer School to be held in DIT Kevin Street.

On the 26th February, 1991 a Press Conference was held to announce the holding of the First Annual George Bernard Shaw Summer School. This Annual Summer School, which will celebrate the literary works of George Bernard Shaw, who was born and who grew up within 200 metres of the College, was held from the 21st to the 23rd June, 1991.

Photograph taken at the Press Conference shows left to right: Mr. Con Howard, Ms. Nora Lever, Councillor Michael Donnelly, Lord Mayor of Dublin, Ms. Frances McCarthy, Mr. F.M. Brennan, Principal, DIT Kevin Street.



COLLEGE CODE: PCLS

DURATION:

One year evening course

DESCRIPTION OF COURSE:

A course in language training for scientists, engineers or business people. The emphasis will be on language skills relevant to the professional needs of the student groups. Courses will be held in French, German or Spanish; if the demand for other languages is adequate, courses may be arranged.

ATTENDANCE REQUIREMENTS:

Two evenings per week.

ENTRY REQUIREMENTS:

Leaving Certificate or equivalent in the modern language, French, German or Spanish.

APPLICATION PROCEDURE:

Applications should be made directly to:

Head, Department of Languages and Industrial Studies, Dublin Institute of Technology, Kevin Street, Dublin 8.

Applicants should attend in person at the College in Room A315 between 18.30 and 20.00 hrs from Monday 9th September to Thursday 12th September 1991 to enrol. Students should provide three passport-size photographs for registration purposes.

CLOSING DATE: 12th September

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies Telephone: 757541.

Graduate Class of 1990 in European Languages for Business photographed after the conferring ceremony in DIT Kevin Street on 3rd November, 1990.

Back Row, left to right: Ms. Miriam Broderick, Audrey Duffin, Carol Howard, Maria Carroll, Una Corr, Eleanor Mulcahy, Deirdre Bourke, Karen Godley, Ms. Niamh Brilley, Ms. Jenny Moreton, Rory Devlin, Gordon Shannon, Gareth Long, Mr. Dermot Campbell, Dr. Damien Roche.

Centre Row, left to right: Dr. Isabelle Foley, Ms. Colette Weaire, Dr. Carmen Oroz de Kelly, Sharon Herlihy, Rosemary Crossan, Mary Smithers, Joanne Callaghan, Marina Brady, Helen Ruane, David Corcoran, Ms. Mary Faulkner, Ms. Mary Ryan, Mr. Robert McMahon, Sharon Saul, Marie Crowley, Rachel Davis, Jennifer Moore, Jean McKay, Santina Seery, Brenda Kennedy, Maria Walsh.

Front Row, left to right: Catherine Ryan, Marion Byrne, Louise Evans, Audrey Flynn, Karen Walshe, Joan Murphy, His Excellency The Spanish Ambassador, Dr. D. José Antonio de Yturriaga, Mr. Frank Brennan, Principal, DIT Kevin Street, Lorna Cullen, Liesl Rodgers, Helen Watt.



CERTIFICATE COURSE IN ELECTRICAL AND ELECTRONIC DRAUGHTING

CAS CODE: DT 244 (DT 50 for 1991)

COLLEGE CODE: ESED

DURATION:

One year wholetime

DESCRIPTION OF COURSE:

This is a one-year wholetime course designed to prepare students for careers in the drawing offices of consulting engineers, electrical contractors, and electrical/electronic equipment designers, manufacturers and assemblers.

ENTRY REQUIREMENTS:

Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, or such qualifications as the College may deem equivalent.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS, Tower House, Eglinton Street, Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

Electrical Science (including Electronics), Electrical Installation Theory, Electrical Draughting (including computer aided draughting), Engineering Drawing, Laboratory/ Workshop, and Project Work.

SPECIAL FEATURES:

This is a broadly-based course on electrical/electronic draughting and on current drawing-office practice.

AWARD:

Internal examinations are set by the College. A Certificate with Pass, Credit or Distinction, as appropriate, is awarded by the College to successful students.

CAREER OPPORTUNITIES:

As a result of the broad coverage of the course, successful students have taken up positions in drawing offices within consultancies, architectural practices and many firms involved in the design, manufacture, supply and installation of electrical and electronic systems.

DEPARTMENT IN CHARGE:

Electrical Installation.

FOR FURTHER INFORMATION:

Mr. R. McCann BA Final(EEP)DeptofEd HDipEd,

Department of Electrical Installation. Telephone: 757541 ext. 222



A happy group on the occasion of the presentation of the 1990 electrical apprentice of the year award. This award of a sterling silver medal — established in 1988 — is made by the Electrical Contractors Association (ECA).

Left to right: Mr. Jack O'Donnell, Head, Department of Electrical Installation; Mr. Joe Mangan, Chairman of ECA and Director of Mercury Engineering; Kieran Callis, recipient of the award.

COLLEGE CODE: SEAS

DURATION:

One year: one and a half days and one evening per week. At the end of the year students transfer to either SESB or PEI to cover the Department of Education Senior Trade Examinations.

DESCRIPTION OF COURSE:

This course provides technical and general education for apprentice electricians during their first year. Practical training is provided at a CIE training centre.

ENTRY REQUIREMENTS:

Employment as an apprentice electrician and approved arrangements with CIE Training Centre.

COURSE OF STUDY:

The course is based on the relevant written examination syllabus of the Department of Education and includes Mathematics, Technical Drawing, Electrical Science, Electrical Craft Theory, Laboratory Work, General Studies and Social Studies.

EXAMINATIONS:

Department of Education Junior Trade Examinations in Electrical Engineering – Electrical Science, Electrical Craft Practice, Electrical Installation Work, Technical Drawing, Mathematics and Craft Calculations. House examinations are also held.

APPLICATION PROCEDURE:

Places should be booked by the CIE Training Centre with the:

Department of Electrical Installation, Church Lane, (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. M. Maher IEng FTC(EEP)CGLI MIEIE, Department of Electrical Installation. Telephone: 757541

'They Sang in Tongues'.

Mark Bevan (WLBS 2) and Arthur Little (WLBS 2) led the Spanish singing at the European Christmas Service of Carols and Readings, 1990.



COLLEGE CODE: PAA

DURATION:

One year. Split block, twelve weeks per annum. Attendance is required for one week in every three plus one evening per week for twenty-six weeks.

At the end of the year the students transfer to either SESB or PEI to cover the Department of Education Senior Trade Examinations.

DESCRIPTION OF COURSE:

This course provides technical and general education for apprentice electricians following "OFF THE JOB TRAINING" provided by FÁS centres. Practical Training is carried out at the appropriate FÁS Training Centre.

ENTRY REQUIREMENTS:

Employment as apprentice electrician and approved arrangements with a recognised training centre.

COURSE OF STUDY:

This course is based on the relevant written examination syllabus of the Department of Education and includes Mathematics, Technical Drawing, Electrical Science, Electrical Craft Theory, Laboratory Work, General Studies and Social Science.

EXAMINATIONS:

Department of Education Junior Trade Examinations in Electrical Engineering — Electrical Science, Electrical Craft Practice, Electrical Installation Work, Technical Drawing, Mathematics and Craft Calculations. House examinations are also held

APPLICATION PROCEDURE:

Places should be booked by FÁS Training Centres with the:

Department of Electrical Installation, Church Lane, (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. R. McCarthy IEng ACIBSE FTC(EEP)CGLI,

Department of Electrical Installation. Telephone: 757541

On Wednesday, 6th February, 1991 Powerhouse, the Bolton Trust Enterprise Centre was opened by the Minister for Energy, Mr. Bobby Molloy TD. Powerhouse is located in the old Pigeon House Hotel at Pigeon House Harbour.

From left to right: Mr. Bobby Molloy TD, Minister for Energy, Mr. Kieran McGowan, Chief Executive, IDA, Dr. P.J. Moriarty, Chairman, ESB, and Mr. Eddy Laverty, Chairman, The Bolton Trust.



COLLEGE CODE:

SESB (Block); PEI (Day Release)

DURATION:

Block Release, SESB: Four Years; one term (i.e. 11 weeks of 35 hours per week) per year of the course.

Day Release, PEI: Four years; one day and three evenings per week. Some fourth year students attend on one additional day per week.

DESCRIPTION OF COURSE:

These courses provide full technical education for apprentice electricians in their first four years of apprenticeship.

ENTRY REQUIREMENTS:

Specified subjects of the Group Certificate or Intermediate Certificate Examinations of the Department of Education.

Prospective students must be apprentices in the electrical trade.

COURSE OF STUDY:

FIRST YEAR:

Electrical Science, Electrical Craft Practice, Practical Installation, Technical Drawing, Engineering Science, Mathematics, General Studies, Social Science.

SECOND YEAR:

Electrical Science, Electrical Craft Practice, Practical Installation, Technical Drawing, Engineering Science, Mathematics, General Studies, Social Science.

THIRD YEAR:

Electrical Science, Electrical Craft Practice, Practical Installation, Planning of Electrical Installations, General Studies, Mathematics, Social Science.

FOURTH YEAR:

Electrical Science, Electrical Craft Practice, Practical Installation, Planning of Electrical Installations, General Studies, Mathematics, Social Science.

In addition to the above Course of Studies, instruction in Artificial Resuscitation is normally provided during each year of the course.

EXAMINATIONS:

FIRST YEAR:

House Examinations.

SECOND YEAR:

House Examinations, plus Department of Education Junior Trade Examinations in Electrical Engineering – Electrical Science, Electrical Craft Practice, Electrical Installation Work, Technical Drawing, Mathematics and Craft Calculations.

THIRD YEAR:

House Examinations. In addition, students may also sit for City and Guilds of London Institute, Course 236, Part II Examination in Electrical Installation Work.

FOURTH YEAR:

House Examinations plus Department of Education Senior Trade Examinations in Electrical Engineering – Electrical Science, Electrical Craft Practice, Electrical Installation Work, Planning of Electrical Installations, Mathematics and Craft Calculations.

NOTE:

On completion of the above courses, students may wish to pursue further courses provided during evenings:

- (i) Course T3 Craft Based
 Technician Certificate in Electrical
 Installation Technology.
 (See page 101 for details).
- (ii) Course T1 which leads to City and Guilds of London Institute Course "C" Examinations in Electrical Installation Work.
 (See page 100 for details).

APPLICATION PROCEDURE:

Places should be booked by employers with the:

Department of Electrical Installation, Church Lane, (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. G. Murphy BA MEd(Hons) HDipEd IEng MIEIE MIITD,
Assistant Head,
Department of Electrical Installation.
Telephone 757541

COLLEGE CODE: BESB

DURATION:

Three years. Block Release, one term of 11 weeks duration in each year of the course.

DESCRIPTION OF COURSE:

This course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an approved training centre.

ENTRY REQUIREMENTS:

Employment as apprentice electrician with ESB, and approved arrangements with an ESB training centre.

COURSE OF STUDY:

FIRST YEAR:

Electrical Science, Electrical Craft Theory, Technical Drawing, Mathematics, General Studies, Social Science.

SECOND YEAR:

Electrical Science, Electrical Craft Theory, Planning of Electrical Installations, Mathematics, General Studies, Social Science.

THIRD YEAR:

Electrical Science, Electrical Craft Theory, Planning of Electrical Installations, Mathematics, General Studies, Social Science.

EXAMINATIONS:

FIRST YEAR:

Department of Education Junior Trade Examinations in Electrical Engineering - Electrical Science, Electrical Craft Practice, Electrical Installation Work, Technical Drawing, Mathematics and Craft Calculations.

SECOND YEAR:

House Examinations. In addition, students may also sit for City and Guilds of London Institute, Course 236, Part II in Electrical Installation Work.

THIRD YEAR:

Department of Education Senior Trade examinations in Electrical Engineering - Electrical Science, Electrical Craft Practice, Electrical Installation Work, Planning of Electrical Installation, Mathematics and Craft Calculations.

APPLICATION PROCEDURE:

Places should be booked by the ESB with the:

Department of Electrical Installation, Church Lane. (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. M. Maher IEng FTC(EEP)CGLI MIEIE,

Department of Electrical Installation. Telephone: 757541 COLLEGE CODE: SEM

DURATION:

Two years; approximately 16 weeks per year.

DESCRIPTION OF COURSE:

This course provides technical education for apprentice electricians in large industrial concerns.

ENTRY REQUIREMENTS:

Junior Trade Certificate in Electrical Engineering.

COURSE OF STUDY:

FIRST YEAR:

SEM 3 – Mathematics, English and General Studies, Planning of Electrical Installations, Practical Installation, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

SECOND YEAR:

SEM 4 - Mathematics, General Studies, Planning of Electrical Installations, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

EXAMINATIONS:

FIRST YEAR:

City & Guilds of London Institute, Course 236, Part II in Electrical Installation Work, plus House Examinations.

SECOND YEAR:

Department of Education Senior Trade

Examinations in Electrical Engineering

– Electrical Science, Electrical Craft
Practice, Electrical Installation Work,
Planning of Electrical Installations,
Mathematics and Craft Calculations.
City and Guilds of London Institute
Course C in Electrical Installation Work.

APPLICATION PROCEDURE:

Places should be booked by employers

with the:

Department of Electrical Installation, Church Lane, (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. T.F. Dillon BA HDipEd FTC(EEP)CGLI, Assistant Head, Department of Electrical Installation. Telephone: 757541

As part of the Rag Week festivities, the chaplaincy in conjunction with the Social Action Group in the College organised a day of swimming, games, dancing, lunch and a video for 52 inner city children from the nearby St. Enda's Primary School, Whitefriar St. This event is part of a series of ongoing initiatives whereby students are reaching out into the local area and forming bridges of friendship with the community.



COLLEGE CODE: TI

DURATION:

Four years; four evenings per week.

DESCRIPTION OF COURSE:

A course in Applied Electricity and related Sciences. The last two years (T1.3 and T1.4) of the course are designed to assist apprentices in preparing for the Senior Trade Certificate Examination of the Department of Education and Course 236 Part II and Course "C" Certificate Examinations of the City and Guilds of London Institute.

ENTRY REQUIREMENTS:

Prospective students must be in employment in some branch of the electrical industry. Applicants for the first year, T1.1 may be required to sit an entrance examination and for other years of the course, applicants must satisfy the College that they have an acceptable knowledge of the matter covered in the years of the course preceding that for which they apply.

COURSE OF STUDY:

FIRST YEAR:

Electrical Science, Electrical Craft Theory, Mathematics.

SECOND YEAR:

Electrical Science, Electrical Craft Theory, Mathematics.

THIRD YEAR:

Electrical Science, Electrical Craft Theory, Mathematics.

FOURTH YEAR:

Electrical Science, Electrical Craft Theory, Project, Mathematics.

EXAMINATIONS:

FIRST YEAR:

House examinations.

SECOND YEAR:

House examinations

THIRD YEAR:

House examinations plus City and Guilds of London Institute Course 236 Part II Examination in Electrical Installation Work.

FOURTH YEAR:

House examinations plus City and Guilds of London Institute Course C Examination in Electrical Installation Work.

APPLICATION PROCEDURE:

Applicants should complete the College Part-Time Enrolment Form and return it to the:

Department of Electrical Installation, Church Lane. (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. G. Murphy BA MEd(Hons) HDipEd IEng MIEIE, Assistant Head, Department of Electrical Installation, Telephone: 757541.



Former Student joins Liverpool Football Club

Tony Cousins was a student in the Department of Electrical Installation from 1987 to 1990. During this time, he represented the College in the AIB Colleges Cup Competition.

He first came to prominence as a soccer player while playing in the Dublin Schoolboy Leagues for Belvedere Boys. He attracted the attention of Chelsea Football Club, was offered and accepted a contract for two years. He then returned to League of Ireland Football with Dundalk Football Club. In 1990 he realised his footballing ambition when Kenny Dalgleish signed him for Liverpool Football Club on a three year professional contract. To date, he has gained international caps at the following levels — U/15, U/16, U/17, Youths and U/21.

COLLEGE CODE: T3

DURATION:

Three years evening course

DESCRIPTION OF COURSE:

The course is designed to provide the student with a comprehensive knowledge of electrical installation and contracting practice from the planning stage to the commissioning of the completed installation.

ENTRY REQUIREMENTS:

Prospective students must have
(i) completed at least three years of an approved electrical apprenticeship,
(ii) obtained the Department of Education Senior Trade Certificate in Electrical Engineering or approved equivalent, and
(iii) satisfy an Interview Board of their ability to benefit from the course.

In exceptional cases, applicants who do

In exceptional cases, applicants who do not satisfy the above requirements may be accepted on the submission of an acceptable curriculum vitae.

COURSE OF STUDY:

FIRST YEAR:

Electrical Science, Electrical Craft Theory, Mathematics, Laboratory/ Workshop, Computers in Electrical Contracting.

SECOND YEAR:

Electrical Science, Electrical Craft Theory, Computers in Electrical Contracting, Laboratory/Workshop.

THIRD YEAR:

Electrical Craft Theory, Electrical Draughting and Drawing Office Procedures, Labour Relations and Management, Financial and Legal Aspects of Contracting, Marketing, Estimating and Tender Preparation, Planning and Carrying out Installations, Project Work.

EXAMINATIONS:

College examinations will be held each year and progress from year to year of the course will be contingent on achieving a pass in the previous examination.

CAREER OPPORTUNITIES:

It is envisaged that graduates of the course would obtain employment as estimators, supervisors, or contracts managers within the Electrical Contracting Industry.

APPLICATION PROCEDURE:

Applicants should apply on the standard College Part-Time Enrolment Form to the:

Department of Electrical Installation, Church Lane, (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. J.T. O'Donnell BA HDipEd IEng MIEIE MIITD,

Head,

Department of Electrical Installation. Telephone: 757541



Photograph shows Mr. Eugene Barber (Department of Electrical Installation) and James Mulhall, a final year electrical apprentice.

James won the final of the 1990 National Apprentice Competition in Industrial Wiring. He also participated in the 1991 finals and, having again obtained first place, was chosen to represent Ireland in the Industrial Wiring Competition at the International Youth Skill Olympics in Amsterdam during June/July 1991.

EVENING COURSE FOR UPDATING IN ELECTRICAL INSTALLATION TECHNOLOGY

COLLEGE CODE: T4.1/2

DURATION:

Two years; two evenings per week

DESCRIPTION OF COURSE:

This course is designed to update electrical craftsmen in Electrical Installation Technology.

ENTRY REQUIREMENTS:

Prospective students must be electrical craftsmen employed in the electrical industry.

COURSE OF STUDY:

FIRST YEAR:

Electrical Science, Electrical Craft Theory, Laboratory Work.

SECOND YEAR:

Electrical Science, Electrical Craft Theory, Laboratory Work.

In both years emphasis is placed on dealing with recent developments within the field of Electrical Installation Technology – particularly in relation to light-current developments. Programmable Logic Controllers (PLCs) will also be dealt with since these are being encountered to an increasing degree by maintenance electricians.

Consideration will be given to the use of PLCs in the following applications: machine control, pump sequencing, group starting arrangements, monitoring and alarm systems, lighting control and energy management.

EXAMINATIONS:

FIRST YEAR:

House Examinations.

SECOND YEAR:

House Examinations.

APPLICATION PROCEDURE:

Applicants should apply on the standard College Part-Time Enrolment Form to the:

Department of Electrical Installation, Church Lane. (Annexe to the College).

FOR FURTHER INFORMATION:

Mr. T.F. Dillon BA HDipEd FTC(EEP)CGLI, Assistant Head, Department of Electrical Installation. Telephone: 757541

Photographed at the DIT Sports Awards Dinner, from left to right: Mr. Brian Mullins, Ray Sinnott (Captain of Volleyball Team), Mella Reynolds (Captain of Ladies Indoor Soccer Team), Mr. Ronnie Delaney, Chairman of Cospoir, The Irish Sports Agency, Mr. Séamus Byrne, Head, Physical Education Department, DIT Kevin Street.



The courses are designed to cater for the recreational activities of the students and staff of the College and will include the following Activities:

Badminton Basketball Canoeing Chess Circuit Training Dance Darts First Aid Gaelic Games Hockey (Mixed) Jogging Tudo Karate Life Saving Related Crafts Appreciation Rugby Soccer Sub Aqua Swimming Table Tennis Tae-Kwon-Do Volleyball Wind Surfing

The philosophy behind the programme is that students should be educated for living. Skills can be provided whereby leisure time can be spent in a healthy environment. This provides a social interaction between students from various courses, and helps to develop an awareness of one's position in the overall structure of the College. It assists in the integration of students from different departments.

The programme operates as follows:-

- (i) Students whose time-tables permit, book the Gymnasium at a set time on a regular basis for a planned programme of activities.
- (ii) Each Day at lunch-time, classes are organised in the Swimming Pool and Gymnasium.
- (iii) Each evening from 16.00 hrs to 22.00 hrs in the Swimming Pool and from 17.00 hrs to 22.00 hrs in the Gymnasium, time is allocated for class and club activities.

- (iv) As the demand increases, and the College facilities become inadequate, facilities are booked at outside venues.
- (v) On the weekend, the outdoor activities are catered for at various centres, such as the VEC Sports Grounds in Terenure, Seapoint, Dalkey Quarry and Bray.

College teams are organised in most sports and they participate in the appropriate competitions for the Third Level Colleges.

The photograph shows the DIT Kevin Street Ladies Cross-Country Team, Winners of the Colleges All-Ireland Title for 1991, an event organised by the Higher Education Sports Federation of Irish Colleges. Left to right: Gilian Brennan (studying Applied Sciences), Beth McCluskey (studying Applied Biology), Sandra Nicholls (studying Applied Physics), Caroline Murray (studying Applied Biology), Tara White (studying Applied Biology), Tara Horigan (studying Applied Chemistry) and Mary Donnelly (studying Applied Biology).



REFRESHER COURSE CENTRE FOR SECOND-LEVEL SCIENCE TEACHERS Subjects: Chemistry, Physics.

IONAD CHURSAÍ ATHNUACHANA MHÚINTEOIRÍ EOLAÍOCHTA DEN TARNA LEIBHÉIL Ábhair: Ceimic, Fisic.

These are five-day courses and take place in June of each year. Each option is organised by the appropriate Department in the College on behalf of the Department of Education.

Chemistry Course.

Curriculum:

Morning Periods (9.30—12.30). Aspects of the new Leaving Certificate syllabus in a series of lectures and demonstrations including Organic Synthesis, Industrial Polymer Chemistry, Kinetics, Equilibrium, Volumetric Analysis and Computer Applications. Emphasis here is on methodology.

Afternoon Period (2.00–5.00). Hands-on laboratory practice designed to emphasise the points discussed in the lectures. Discussion sessions are organised after each practical, one afternoon is devoted to an industrial visit.

Physics Course.

While the Physics course is designed primarily for post-primary teachers who have just begun teaching physics, many experienced teachers attend the

course to update themselves on various aspects of the revised physics Leaving Certificate syllabus. There is a strong emphasis in the course on experimental work and the participants spend two sessions each day in the laboratory. This practical work is closely related to the revised physics syllabus and is directed by four very experienced Lecturers. There are also two lectures each day on aspects of the syllabus where students experience difficulty. On the final day of the course, an extended discussion takes place on the administrative, logistical and pedagogical problems associated with student practical work.

A social evening, when the two groups come together, has also become a standard and popular feature of the course.

Acceptance to these courses is at the discretion of the Department of Education. Second-level Schools and Colleges are normally circulated with the appropriate information during the Spring Term.



Department of Education Physics Course - June 1990

Back Row, left to right: Aidan Sherlock, Martin Cuniffe, Alan Dunne, George Porter, Fr. Collins, John Loughran.

Third Row, left to right: Kieran Hogan, Brendan Guildea, Pat Noonan, Seámus Ó Míocháin, Michael Quirke, Diarmuid O'Leary.

Second Row, left to right: Oliver Reynolds, Kathleen Hayes, Mary Dowling Maher, Sr. Rose Dwan, Karen Naughton, Oliver Harrington.

Front Row, left to right: Naria Noone, Paula Dowling, Mary Manning, M. Cotter, Geraldine Walton, Mary Gilroy, Celia Connolly, Catherine McDonagh, Enda O'Flaherty.



A Group from the Graduate Class of 1990 Technician Diploma Course in Applied Science (Chemistry Option)

Back Row, left to right: Anne-Marie Griffin (Kerry), Linda McEntegart (Dublin), Karl McAteer (GRSC), Martin Ryall (GRSC), Anthony Byrne (Garda), Kevin Boss (GRSC), Vanessa Doherty (Loctite).

Front Row, left to right: Maureen Daly (GRSC), Eugene Russell (Dublin), Sharon Finn (Burgess Galvin), Dr. Eamonn Rothery, Head, Department of Chemistry, Patricia Lehane (Cork).



Mr. Alan Potter, Chief Executive of the Institute of Medical Laboratory Sciences, presenting the R.J. Lavington Prize for overall First Place in the Institute of Medical Laboratory Sciences Fellowship Examinations to Ms. Suzanne Traynor.

SECTION A.2

Post-graduate Studies

Doctor in Philosophy Degrees / Master in Science Degrees

Fellowship of the Institute of Medical Laboratory Sciences

STADÉIR IARCHÉIMEACHA THAIGHDE

In addition to its undergraduate programmes, the College also welcomes applications from well-qualified candidates wishing to undertake research leading to higher degrees (MSc and PhD). At present such research may be undertaken in the departments of Biological Sciences; Chemistry; Control Systems and Electrical Engineering; Electronics and Communications Engineering; Mathematics, Statistics and Computer Science; Physics. Successful candidates will be assigned a supervisor from the appropriate discipline and arrangements (usually with the University of Dublin) will be made to register students for the appropriate degree. Financial support in the form of a limited amount of teaching duties may be provided to particularly well-qualified candidates.

Application Procedure:

- (a) A candidate proposing to become involved in research in the College should in the first instance discuss the project with his/her Head of Department with a view to establishing its feasability and relevance. Other matters to be considered include the possibility of external funding, the type of facilities and support required and the proposed programme of work.
- (b) A written application should be made to the College on the Post-Graduate Research Form through the

Head of Department, outlining clearly the nature of the project, the type of facilities and support required, the proposed supervisors and programme of work, funding arrangements and other details considered to be relevant.

(c) Candidates should not begin work on their projects until all the registration requirements have been completed.

Specialised Awards:

Specialised research awards may also, in some cases, be tenable in the College. Prior to formal application, intending candidates should seek advice from the Head of the appropriate Department.

Department of Education Post-Doctoral Fellowships:

The College also participates in the Department of Education's Post-Doctoral Fellowship Scheme. This scheme enables recently qualified graduates at the PhD level to pursue research in the College (usually in collaboration with a member of staff). Further details of this scheme and the post-graduate programmes may be obtained from:

Mr. J.K. Taaffe, Vice-Principal, or Dr. B. Goldsmith, Chairman, Research Committee.

COLLEGE CODE: S.10.1

DURATION:

1 Year. Block-Release totalling 8 weeks.

DESCRIPTION OF COURSE:

An advanced course in Biomedical Sciences, Biology of disease, statistics, epidemiology, electronics/instrumentation, physics.

ENTRANCE REQUIREMENTS:

Associateship of the Institute of Medical Laboratory Sciences.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section, Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE: 31st August.

COURSE OF STUDY:

The course consists of the study of Biomedical Sciences, with particular reference to cell biology and molecular genetics, statistics, epidemiology, electronics/instrumentation and pharmacology. A major component of the course is concerned with the Biological basis of disease and encompasses immunology, clinical pathology and the scientific investigation of the disease process.

EXAMINATIONS:

Part 1 Fellowship Examination.

FURTHER STUDY:

Successful completion of the above course and examination enables candidates to apply for entry to Fellowship of the Institute of Medical Laboratory Sciences Part 2.

FOR FURTHER INFORMATION:

Dr. Thomas G. Scott FIMLS FAMLS Department of Biological Sciences, Dublin Institute of Technology, Kevin Street, Dublin 8. Telephone 757541 ext. 361.

The presentation of the R.J. Lavington Prize to Ms. Suzanne Traynor, St. Colmcille's Hospital. This prize is awarded to the candidate who received the highest marks in the four written papers of the Fellowship Examinations of the Institute of Medical Laboratory Sciences. Ms. Traynor's specialist subject was Transfusion Science.

Shown from left to right are: Mr. Colm O'Rourke FIMLS, Lecturer in Transfusion Science, Ms. Suzanne Traynor and Mr. Alan Potter FIMLS, Chief Executive, Institute of Medical Laboratory Sciences, London.



FELLOWSHIP OF THE INSTITUTE OF MEDICAL LABORATORY SCIENCES PART 2

COLLEGE CODE: S.10.2

DURATION:

Two years. Block-Release.

DESCRIPTION OF COURSE:

A Postgraduate course in Medical Laboratory Sciences for students taking the Special Fellowship Examination Part 2 of the Institute of Medical Laboratory Sciences.

ENTRANCE REQUIREMENTS:

(a) An appropriate Degree at Honours Level in Biomedical Sciences or Medical Laboratory Sciences as approved by the Institute of Medical Laboratory Sciences.

or

(b) Successful completion of the Part 1 Examination.

APPLICATION PROCEDURE:

Applicants should apply directly to: The Registration Section,

Dublin Institute of Technology, Kevin Street, Dublin 8.

CLOSING DATE:

31st August.

COURSE OF STUDY:

The course is based on the study guide published by the IMLS. Students will study one specialist subject. The following specialist options are available subject to adequate enrolment: Bacteriology Transfusion Science Clinical Chemistry Haematology Cellular Pathology Immunology

DISSERTATION:

A review presentation of approximately 3,000 words.

PROJECT:

A practical project must be carried out and a thesis presented (6,000 words).

NOTE FROM THE INSTITUTE OF MEDICAL LABORATORY SCIENCES:

Students are informed that enrolment to the course neither means nor implies they are eligible to sit the Medical Laboratory examination. While the College offers assistance and advice, students are reminded that it is their own personal responsibility to ensure that they conform to current Institute regulations for entry to the examination.

EXAMINATIONS:

Special Fellowship Examination of the Institute of Medical Laboratory Sciences Part 2.

AWARD:

Fellowship of the Institute of Medical Laboratory Sciences.

CAREER OPPORTUNITIES:

The Fellowship of the Institute of Medical Laboratory Sciences is the required qualification for Technologist and Chief Technologist posts in the Medical Laboratory services.

Other areas of employment include Veterinary, Pharmaceutical and Research Laboratories. A small number choose to work in Industry and Education. There are increasing numbers of career opportunities in developing countries for short term and long term assignments of experienced medical laboratory scientists.

FOR FURTHER INFORMATION:

Dr. Thomas G. Scott FIMLS FAMLS, Department of Biological Sciences, Dublin Institute of Technology, Kevin Street, Dublin 8.

Telephone: 757541 ext. 361



A considerable range of research and development projects are being carried out in the Department of Control Systems and Electrical Engineering. The photograph shows Allan Rochford (left) and Michael Murphy (right), both of whom are working for higher degrees in the Department, together with Mr. Declan Mulroy, technician in charge of the Senior Electrical Measurements laboratory.

SECTION B

Industrial Liaison Office

Entrepreneurship Programme

Industrial Control Centre

The Sports Nutrition Centre

Biotechnology Centre

National Bakery School; Centre for Specialised Courses, Product Development and Consultancy

Fourier-Transform-Infrared/Raman (FTIR) Centre

Centres for Research, Development and Consultancy in Communications Engineering and in Digital Signal Processing

Foor Irradiation Research Group

Centre for the Mining Industry and Related Research and Development

The Irish National Photographic Archive

Research and Development in Avionics

STAR-IRL

Overseas Development Work
Campus Companies

OIFIG TEANGABHÁLA DÉANTÚSAÍOCHTA

Research and Development activities which have been features with DIT Kevin Street for over 20 years have grown very significantly over the past five or six years. Most of this work has been assisted by means of EC funds for industry-education co-operative schemes.

In 1991 the Industrial Liaison Office was set up to assist in the administration of such work, develop the role of the college further in this area, and to provide the basis for future policy in relation to this link.

The function of the office is to facilitate researchers who wish to carry out industrially-related R & D work (in the broadest sense) by focusing on the following activities:

- Databasing Irish Companies;
- Enabling meaningful contacts between researchers and industrialists;
- Assisting in the processing of grant applications;
- Identifying EC partners for networking;
- Promoting the College's expertise and commitment towards industrial linkage;
- Providing information on funding opportunities;
- Providing information on Licencing.

Funding has been obtained for a number of projects under the Eolas Applied Research Programme and the Higher Education Industry Co-operation Scheme. 52 members of the academic staff are presently in receipt of funding from industry and funding agencies.

Amongst larger projects which we hope to build on are: the co-operative avionics project between our Telecommunications Department and TEAM Aer Lingus (valued at £360,000) and the establishment of our Industrial Control Centre based in the Electrical Engineering Department and funded by structural funds through the Department of Industry and Commerce.

Most of the graduates employed under these research schemes are registered for Applied MSc/PhD degrees so that an infrastructure of academic expertise in areas such as:

- Avionics
- Power Electronics
- Medical Instrumentation
- Chemical Process / Product Development
- Statistics, Computing & Operations Research

has developed as a very effective service to industry.

Further Information from:

Dr. Peter F. Kavanagh, Industrial Liaison Officer,

or

Ms. Katherine Fitzgerald BA, Assistant to Dr. Kavanagh. Telephone: 757541 ext.372



Discussions have been held between DIT Kevin Street and Mitsubishi in relation to application of laser technology to positioning and non-destructive testing. The photograph shows, from left to right: Dr. Peter Kavanagh, Industrial Liaison Officer, Dr. Vincent Toal, Department of Physics, Mr. David Ross, Mitsubishi, Mr. Fergus Madigan, Managing Director, Mitsubishi Ireland, Mr. Rea O'Neill, Industrial Liaison, DIT, and Mr. Kieran Taaffe, Vice-Principal, DIT Kevin Street. The proposal is currently under consideration in Japan with a view to undertaking a co-operative project.

CLÁR GHNÓ-EAGRAÍOCHTA

The College participates in an Entrepreneurship Programme organised by the Dublin Institute of Technology and funded partly from the Commission of European Communities. This programme is **project based** i.e. training consists of carrying through a project idea from the basic concept to the building and testing of an initial prototype and the preparation of a

business plan.

Emphasis throughout the programme is placed on commercial feasability and tuition in the business and financial aspects of the programme is provided by the School of Management Studies in Rathmines.

The programme is open to technician or degree graduates with good project

ideas which they might wish to bring to commercial feasability.

A number of the projects are linked with small business ventures while others are linked with lecturers in the College who wish to develop commercial ideas.

For the 1990/91 year there were four projects based within the College covering the following: —

Subject Area	Graduate	Consultant(s)	Department
All in One Spice Sea Salt	Vincent Dempsey	J. McEvoy	Biological Sciences
Soft Cheeses	Fintan Leonard	J. McEvoy	Biological Sciences
Biosensors	Robert Foster	E. O'Donoghue, J.F. Cassidy	Chemistry
PLC Software	Stephen Mahon	D. Berber	Control Systems and Electrical Engineering

While engaged on the programme, graduates are paid a weekly maintenance allowance. Funds are available for project materials and associated costs for development and maximum use is made of workshops and laboratory facilities within the College.

Enquiries should be directed to:

Mr. J.K. Taaffe, Vice-Principal,

or

Mr. F.R. O'Neill, Industrial Liaison Officer, Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2. Telephone 766584 / 611133.

IONAD DO RIARTHA DEÁNTÚSAÍOCHTA

An Industrial Control Centre has recently been established by the College within the Department of Control Systems and Electrical Engineering.

The Centre will provide an environment to facilitate the transfer of modern control theory and practice to Irish industry by promoting and developing existing industrial links and actively pursuing new industrial, research and commercial activities. The Centre is based in a new laboratory facility within the College. The Centre is managed by a full-time manager and facilities are provided for post-graduate students. It will avail of the existing expertise of the staff within the department, and will also utilise the multi-disciplinary expertise within the College.

Initially, the Centre will concentrate on research in modern process control strategies and distributed control systems. It will provide support for a number of on-going commercial projects, training courses and seminars.

Further Information from:

Mr. Colm Murray, Manager, Industrial Control Centre. Telephone: 757541 ext. 375.



These new graduates have been involved in some interesting innovation in the Food Industry. Ms. Elizabeth Tutty, a Food Science and Technology Graduate, working with Paradis on an Eolas — Irish Science and Technology HEIC Grant, established a quality control system for hand-made chocolates.

Mr. Vincent Dempsey produces the first batch of 'All in One Spice Sea Salt' for shelf life tests. This is a new Mega Foods product.



IONAD COTHÚ SPÓIRT

An interdisciplinary team of scientists at the Dublin Institute of Technology, Kevin Street, consisting of dietitians, haematologists, biochemists, a computer scientist and a physicist, have been conducting research into the nutritional status of Irish athletes during the past 12 years.

A comprehensive study of over 100 Olympic class Irish athletes from such sports as athletics, cycling, hockey and rowing was carried out for the Moscow Olympics in 1980. The athletes weighed all their food before eating on three alternate days using weighing scales specially provided, and blood tests were carried out. Computer analysis of the data provided each athlete with a detailed profile of their nutrient intake and corrective advice was given, where appropriate.

This service was provided at no charge to the athletes through funding from the National Dairy Council and the CDVEC and resulted in a major scientific publication in the British Journal of Sports Medicine.

In May, 1991 the President of the Olympic Council of Ireland nominated the Sports Nutrition Centre to assess the nutritional status of athletes for the Olympic Games in Barcelona in 1992. A pilot study has already commenced and the Ladies International Hockey Squad were scheduled for assessment on June 22nd, and the International Marathon Squad (Male and Female) on July 20th, 1991. Food intakes are being measured using the Photographic Atlas Method as used in the Irish National Nutrition Survey 1990 and also by the 7-Day weighted method.

Nutritional status is also being assessed by anthropometric, haematological and biochemical measurements. Again, this very costly service is being provided at no charge to the athletes with assistance from a DIT Research Grant.

Commercial sponsorship is being actively sought to extend this service to other Olympic groups. It is envisaged that this specialist dietary advice, coupled with the appropriate training, will lead to an improved athletic performance.

Provided adequate funding can be found, it is intended to develop the Centre so that specialist skills will be available on an on-going basis to all sports groups in Ireland. It is also intended that the continuing research will be extended to collaborate with European and Far Eastern colleagues.

Further Information from:

Ms. B.A. Ryan,
Department of Biological Sciences.
Telephone: 757541 ext. 329

or

Dr. T. Cantwell,
Department of Physics.
Telephone: 757541 ext. 344.

IONAD DON BITHTHEICNEOLAÍOCHT

The College has recently decided to establish a Centre for Assessment of Risk from Biotechnological Processes. The Centre combines expertise from all departments in the College.

The Centre is focussing on a major problem area of biotechnology - risk assessment and environmental impact analysis. This is becoming more important as biotechnology revolutionises the way we live. There is concern both in industry and among the general public not only over possible adverse environmental effects of new processes, organisms and waste, but there is also an increasing need for the development of rapid, accurate, cheap and preferably non-animal-based screening and toxicity testing techniques. The Centre, under the Chairmanship of the Head of the Department of Biological Sciences, Ms. B.A. Ryan, is concentrating on a few projects initially and will develop as funds are generated. Projects under way at present include:

- (1) Development of a human tissue based *in vitro* carcinogenicity and toxicity assay — Departments of Biological Sciences and Physics.
- (2) Assessment of risks associated with microwave, UV and ionising radiations

 Departments of Physics and Biological Sciences.

- (3) Analysis of by-products of food irradiation – identification and toxicity testing – Departments of Chemistry, Physics and Biological Sciences.
- (4) Development of databases which could be used to identify subgroups of the human population most at risk from cancer causing pollutants/conditions
 Departments of Mathematics, Statistics & Computer Science, Physics and Biological Sciences.

Further Information from:

Ms. B.A. Ryan or Dr. U. MacEvilly, Department of Biological Sciences.

Dr. C. Mothersill, Department of Physics. Telephone 757541.

Members of the Irish Ladies International Hockey Squad being instructed in the correct procedures for the weighing of food as part of the dietary assessment by the Dublin Institute of Technology, Kevin Street. Photograph shows members of the Olympic Hockey Squad with (centre, left to right): Ms. Mary Moloney, Lecturer in Dietetics, Ms. Phil Flood, Principal Dietitian, St. James's Hospital and Dr. Mary Archer, Medical Officer to the Ladies Hockey Union.



NATIONAL BAKERY SCHOOL Centre for Specialised Courses, Product Development & Consultancy

SCOIL NÁISIÚNTA BAICEÍREACHTA Ionad do Chursaí Speisialta, Forbairt Tairgthe agus Comhairleacht

In 1937 the Bakery School was established in what was then known as Kevin Street Technical Institute, as part of the CDVEC system of craft trade education. Today the school is the only one in Ireland servicing the needs of the Bakery Industry.

Traditionally the School has provided courses in bakery practice for part-time day release apprentices. In 1970 the whole-time Diploma Course in Bakery Production and Management was established.

In responding to the changing needs of the industry, the National Bakery School has embarked on a programme which will provide a series of short duration courses. These courses will cover a wide range of specialisations and are designed to provide the necessary skills to equip industry for the challenge of the future.

This programme has offered the following specialist courses to date:

January 1989 – Australian Cake
Decoration Course.

March 1989 – Hand Made Chocolates Course.

October 1989 - Baker Biscuit, Cookie and Petit Fours Course.

Product Development, Research and Training Facility.

It is important to the College and the Industry nationally that the resources of the National Bakery School should be made more widely available and that the School should reflect the modern needs of the industry. With this objective in mind, the College has established a Research, Development and Training facility in the School.

The objects of the facility are:

To provide assistance in the area of product development.

To advise on quality control and hygiene.

To assist in the development of product specifications.

To advise on and assist with staff development and training programmes.

Further Information from:

Mr. Derek O'Brien, Head, National Bakery School, Dublin Institute of Technology, Kevin Street, Dublin 8. Telephone 757541.

FOURIER-TRANSFORM-INFRARED/RAMAN (FTIR) CENTRE

IONAD CLAOCHLÚ-FOURIER-IR/RAMAN

A Centre of expertise in FTIR/Raman spectroscopy has been developed in the College culminating in the recent purchase of a Computer Interfaced Jobin Yvon Raman Spectrometer to compliment the Perkin Elmer FTIR instrument.

This facility is unique in this country and will provide specialised data, both qualitative and quantitative, on chemical samples for industry and other academic institutions. The lack of interference from water or glass on Raman spectra gives this technique a special advantage in the analysis of industrial samples.

This Unit augments the considerable analytical instrumentation and expertise already centred in the Department of Chemistry which features AAS/FES, GLC, HPLC, ion chromatography, polarography, uv/visible and NMR (80MH).

The Department of Chemistry can now offer a comprehensive service based on this modern instrumentation and give to under-graduate and post-graduate students invaluable experience in the use of these techniques.

Principal Staff involved:

Dr. B. Foley, Dr. J. Cassidy and Dr. N.R. Russell.

Further Information from:

Dr. N.R. Russell, Assistant Head, Department of Chemistry. Telephone 757541 ext. 220.

CENTRE FOR RESEARCH, DEVELOPMENT AND CONSULTANCY IN COMMUNICATIONS ENGINEERING AND IN DIGITAL SIGNAL PROCESSING

IONAD FORBARTHA, TAIGHDE AGUS COMHAIRLEACHT SAN INNEALTÓIREACHT CUMARSÁIDE AGUS DO PROISÉAIL CHOMAIRCÍ DIGITEACH

The College has a long tradition of development in Communications Engineering and was one of the first institutions in this country to establish specific courses in this discipline.

In recent years the application of digital methods to the processing of signals has become of paramount importance. Considerable expertise and resources in this area have been built up in the College.

The College would wish that these resources should be made more widely available, in particular to provide assistance in the industrial exploitation of these technologies.

As a consequence, a Research and Development Centre in Communications Engineering and Digital Signal Processing has been established in the Department of Electronic and Communication Engineering.

The objectives of the Centre are:

- (1) To foster research and development in Communications Engineering and Digital Signal Processing.
- (2) To undertake industrially sponsored research, development and design work in these fields.
- (3) To provide a consultancy service to industry.

Further Information from:

Communications Engineering, Mr. G. Farrell, Telephone 757541 ext. 248 Digital Signal Processing, Dr. R. Lynch, Telephone 757541 ext. 302

GRUPA TAIGHDE BHIA GAETHÚ

The Food Industry in Ireland forms a major integral part in our National Economy, and is responsible for a very high percentage of our exports. In light of this it is of great importance that the Irish Food Industry has access to the latest technology that is available. In recent years it has been found that some of the methods of food preservation were unsatisfactory and that some of the chemicals employed, e.g. sodium nitrate were found to be dangerous to health. Following recent Salmonella outbreaks, Governments of the States of the European Community are considering the recommendation of the use of irradiation as a method of food preservation. Some foodstuffs which we import are already irradiated. DIT Kevin Street has acquired a cobalt 60 food irradiator, and we have now formed an interdepartmental multidisciplinary research group, involving the Departments of Physics, Chemistry and Biological Sciences.

The objective of this group is to establish an indigenous centre of expertise which will provide information for the Irish Food Industry – and the public – on all matters of food irradiation. The group aim to:

(a) Provide a multidisciplinary approach to the problems of food

irradiation so that a body of expert scientific opinion is centralised in this country. (This did not exist before the forming of this group).

- (b) To optimise the physical methods of food irradiation to suit the needs of the Irish Food Industry.
- (c) To conduct a comprehensive toxicological and microbiological analysis of possible suggested or perceived risks of food irradiation and to compare these risks with those associated with present methods of shelf life extension.
- (d) To provide documents and short courses on food irradiation for the information and education of Irish Industry and the general public.
- (e) Develop assays to determine whether food samples have been irradiated or not.

Considerable support from the Food Industry, the Nuclear Energy Board and the Commission of the European Communities has been received.

For Further Information:

Mr. J. McEvoy, Dr. U. MacEvilly, Dr. T.G. Scott, Department of Biological Sciences. Dr. M. Keating, Dr. B. Foley,

Dr. M. Keating, Dr. B. Foley, Department of Chemistry. Dr. C. Mothersill, Mr. P. Goodman, Department of Physics.

CENTRE FOR MINING INDUSTRY AND RELATED RESEARCH AND DEVELOPMENT

IONAD DO THAIGHDE AGUS FORBAIRT SAN MHIANADÓIREACHT

For a number of years now, a team within the Department of Chemistry has carried out R and D work successfully on indigenous materials for a number of companies. These include Tara Mines Ltd, Connary Minerals plc (Feltrim) and Bord na Móna.

These companies have financed the work which has been carried out under the supervision of Dr. P.F. Kavanagh, Dr. M.B. Foley and Dr. J. Cassidy.

The team has built up considerable expertise in process development aimed at providing environmentally acceptable and commercially feasible processes in this sector.

From an academic viewpoint a number of MSc post-graduate students are employed on the projects.

The team have now put forward a proposal to accelerate the development of the centre in order to serve the national interests as speedily as possible in a professional manner.

Dr. P.F. Kavanagh joined DIT Kevin Street in 1984, having spent twenty years in the chemical industry both in Britain and Ireland. This included five years with ICI Mond Division as a Technical Officer in the R and D Department, ten years with NET Ireland, mostly as R and D Manager, and five years Quality Manager with Wavin Pipes. Over the last number of years he has been involved with R and D work in hydrometallurgy.

Dr. M.B. Foley joined DIT Kevin Street in 1983 as a Lecturer in Analytical/Physical Chemistry having previously been Analytical Services Manager for Leo Laboratories, Dublin. He has been actively involved in a number of industrially funded mining-based projects since 1985 and has a special interest in the application of spectroscopy and chromatography in the analysis of hydrometallurgical solutions.

Dr. J. Cassidy joined DIT Kevin Street in 1986 as a Lecturer in Analytical Chemistry and is involved in model development for kinetically and diffusion controlled reaction systems. His main interest is the development of on-line sensing layers for metal and organic species in flowing streams.

AIRCÍOVLANN GRIANGRAFAÍOCHTA NÁISIÚNTA NA hÉIREANN

January 1989 saw the 150th anniversary of the invention of photography. It is, in consequence, most appropriate that in this year we announce the formation of a National Photographic Archive. It is equally appropriate that this archive has been established in this College, being the national centre for the study of photography.

The Archive has been formed to collect and conserve photographs of artistic, social or historical significance from the earliest days to the present. It will of course concentrate on Irish subjects or photographers but will include important pictures from any source or of any subject. The source of all the pictures will be entered along with comprehensive details of each photograph on the computerised database which will make the entire collection accessible to researchers and other enquirers.

A national portrait collection of significant people in all walks of life will be assembled, filling a significant need.

The archive has already received generous donations of negatives, lantern slides and prints. Any person who has photographs within the catagories specified above who would wish to donate them to the national collection or allow the most significant

images to be copied for the collection, is invited to contact the Director of the Archive at the College address.

Special archive facilities have been constructed adjoining the photography section. These include a reading room which will soon be open to researchers and it is hoped to have some periods of opening for the general public in the near future.

Further Information from:

Mr. D.H. Davison or Mr. S. Coonan or Mr. G.E. White, Photographic Section, Department of Physics. Telephone 757541 ext.248

Ms. Fionnuala Duffy, Cardiac Services Ltd, presenting the Cardiac Services Prize for the student obtaining first place in the final examinations of the Technician Diploma Course in Applied Science (Physics Option) to Jennifer Kelly. In the centre is Mr. Joe Guy, Course Director. Jennifer also won the Loctite Silver Medal awarded to the student, from either the Physics Option or the Chemistry Option of the Technician Diploma Course in Applied Science, who obtained the highest marks in the final examinations.



FORBAIRT AGUS TAIGHDE SAN EITREONACH

The College has for many decades been a centre of excellence in electronic and communications engineering and always responsive to the needs of industry. In particular the airline industry has developed close links with the College and many Aer Lingus technical staff have pursued their engineering studies at the College.

In 1990 TEAM/Aer Lingus was established as a subsidiary of the airline to undertake contract aircraft maintenance. Following on this important development a joint project, involving the College and TEAM/Aer Lingus, was set up to undertake research and development in Automatic Test Equipment (ATE) for the Avionics Industry. It is proposed to test Avionic Line Replaceable Units such as Flight Recorders, VHF Omnidirectional Radio and Electronic Turbine Controllers.

A comprehensive Test/Diagnostic system based on Artificial Intelligence techniques, will be developed for this purpose. A highly structured Computer Aided Software Engineering (CASE) environment is being put in place to facilitate the efficient development of software and to ensure high quality verification and validation procedures. This is critical to acceptability by the

various air-worthiness certification authorities.

This £350,000 project is jointly funded by TEAM/Aer Lingus and EOLAS under the Higher Education Industry Co-operation scheme and is scheduled, in the initial phase, to extend over a period of two years. The project is located in the Department of Electronic and Communications Engineering and employs two research engineers and a technician. Mr. Kevin Kelly, a graduate of the College and Avionics Component Manager in TEAM/Aer Lingus, is co-ordinating the Company's involvement in the project.

Further information from:

Mr. Christopher Cowley or Mr. John Dalton, Department of Electronics and Communications Engineering. Telephone: 757541 ext.240



STAR (Specialised Training in Aeronautics and Research) is an UETP (University Enterprise Training Partnership) founded in 1987 to promote European co-operation in the fields of aeronautics and space. It is the only association dealing specifically with aerospace. Currently there are eight STAR national associations of which practically all of the European aerospace companies and some 15 universities are members. The Irish association (STAR-IRL) was formed in July 1991 by the Dublin Institute of Technology, Kevin Street with TEAM/Aer Lingus as its industrial partner. The activities of this association are directed by Mr. J. Dalton of the Department of Electronic and Communications Engineering.

A major development of STAR has been the recent foundation of the European University of Aeronautics. This is a multi-site institution consisting of six geographically separated sites, each specialising in a particular aspect of aeronautics. The Dublin Institute of Technology, Kevin Street is closely involved in the development of the avionics speciality. It is intended that students from the Dublin Institute of Technology, Kevin

Street will attend the European University for periods of up to 12 months. Another important aspect of STAR's work, of interest to the Dublin Institute of Technology, Kevin Street is the placement of students in aeronautics-related enterprises.

Further Information from:

Mr. J. Dalton, Department of Electronic and Communications Engineering, Telephone: +353-1-757541.



OBAIR FORBARTHA THAR SÁILE

Following a feasibility study undertaken by Ms. Brid Ann Ryan, Head of the Department of Biological Sciences in 1977, the Irish Government agreed with the Government of Lesotho to fund a training programme for medical laboratory personnel in Lesotho under its bilateral aid programme. This programme is designed to train Basotho technicians in Lesotho and Ireland to service their 17 hospitals and 88 health clinics. The course qualifies about 10 technicians each year.

In 1982 the Dublin Institute of Technology began granting an external award to graduates of this course. In 1985 a new Certificate Course in Medical Laboratory Sciences for Laboratory Technicians was initiated under the programme and this course was also recognised by the Dublin Institute of Technology for an external award.

Academic staff of the College have to date participated in the project in addition to medical laboratory technologists who have been seconded to the project by the various health boards and hospitals.

The Department of Mathematics, Statistics and Computing have established a co-operative link with the Department of Mathematics in the University of Dar-es-Salaam in Tanzania, through the sponsorship of HEDCO. The same Department is also involved in a Commission of the European Communities sponsored collaboration with Yarmouk University, Irbid in Jordan.

In 1988, the College, through the Head of the Department of Biological Sciences was invited by the Commission of the European Communities and the Government of Singapore to advise on the development of programmes in Medical Laboratory Sciences in Singapore.

Staff have been seconded to other Development Aid Programmes at the request of HEDCO and the Department of Foreign Affairs.

Ms. B.A. Ryan, Head of the Department of Biological Sciences, is a member of the Board of Directors of APSO (Agency for Personal Service Overseas). Mr. J.K. Taaffe, Vice-Principal, is Chairman of the Education Committee of ICOS (Irish Council for Overseas Students) and a member of the Technological Colleges Committee of HEDCO.

COMHLUCHTAÍ CHAMPAIS

The College is very supportive of Government policy as outlined by the Minister for Education and the Minister for Science and Technology in encouraging academic staff and Third Level Colleges to become involved in industrial development and entrepreneurship.

Both Ministers explained their policy in this regard during the IDA Conference on Campus Entrepreneurs in the Royal Hospital, Kilmainham on 15th November 1988.

During the past three years the College has responded to Government policy and Ministerial encouragement when it supported the foundation of a number of Campus Companies.

Company: Microsol Ltd.
Founder Director: Barry Redmond.
Department: Electronic and
Communications Engineering.

Microsol designs and manufactures a new type of industrial monitoring and control system. The system consists of compact units, each microcomputer-controlled, distributed around the plant or equipment to be monitored and communicating via a Local Area Network. It was developed as a result of many years' experience in the Process

Control Industry, where monitoring systems have typically been large cumbersome centralised units.

The design is wholly original and includes a number of innovative ideas. Development of the product involved the design of the multi-tasking real-time operating system and the Local Area Network protocol, as well as all the electronic circuits.

Microsol launched the PCX2000 system in 1988. The company's major market is the UK, with sales to companies such as the Central Electricity Generating Board, Rolls Royce and GEC. Significant contracts have also been won in Belgium, Finland and Korea. Co-operation agreements have been signed with a number of international companies to integrate the PCX2000 with their existing products.

Applications for the system include industries such as electricity generation and distribution, water treatment, chemicals, gas, security, building management and general manufacturing. New applications appear regularly; controlling temperatures in a 100 metre continuous kiln in a pottery, for example, or high-accuracy metering of electricity as it passes from a generation to a distribution authority.

The two founders of the company are both graduates of the Electrical Engineering course in DIT Kevin Street and the company regularly provides vacation employment for students from the College. All development and production is done in the Microsol premises in the IDA Enterprise Centre in Pearse Street, Dublin.

Microsol was a winner in the Bank of Ireland Dublin Millennium Business Competition in 1988, and a regional winner in the IDA/Lombard and Ulster Academic Enterprise Awards scheme in 1989. Future plans include expanding the European market and entering the American market and, on the technical side, the development of the next generation of the system including work on operating systems and computer networking.

Company: Irish Bio-medical Systems Ltd. Founder Director: Dr. M. Hussey. Department: Physics.

The aims of the Company are to develop and commercialise ultrasonic and electronic product ideas in the biological sciences and medical physics areas. The product ideas currently under research and development involve objective assessment of a range of meat quality parameters, novel medical imaging modalities, techniques for quality control in ultrasound medical imaging and applications of ultrasound spectrometry.

Financial support has been obtained for specific projects from the National Development Corporation (Nadcorp) and from the Industrial Development Authority (IDA). Collaboration has also been established with a French engineering company for the carrying out of an extensive market and product specification study in the European arena and for the commercialisation of a number of product ideas.

Company: Optometrics Ltd. Founder Directors: Dr. P.A. Davison, Dr. T.P. Grennan, David O'Brien. Department: Physics.

Optometrics is a Dublin Institute of Technology Campus Company founded by 3 lecturers of the Department of Physics for the purpose of designing and developing new instruments for testing the performance of the eye. The Company combines expertise in physiology of the eye, physics, optometry, electronics and computer programming. Personnel involved at

present are two full-time lecturers (Drs. Thomas Grennan and Peter Davison), a part-time lecturer (Mr. David O'Brien) and a researcher (Ms. Jacqueline Armstrong). Other lecturers, including Dr. Paul Mathias (Department of Biological Sciences) have an advisory role.

Instruments currently under development include two devices for testing night vision and one for detection of glaucoma (raised pressure within the eye causing blindness if not treated). An Irish Patent Application has been registered relating to the first two devices.

Applications for the instruments are in the following areas:

(i) hospitals' clinics and consulting rooms, (ii) detection of damaging effects on vision and general health in cases of malnutrition, and (iii) personnel selection and monitoring, for example of pilots.

The Company is in co-operation with the DIT Product Development Centre, the Bolton Trust, and the Dublin Business Innovation Centre.

Optometrics has been successful in attracting funding from the Industrial Development Authority, and was a finalist in the Dublin Millennium Enterprise Competition.

Company: Energy Control Systems Ltd. Founder Director: Mr. John Brazil. Department: Control Systems and Electrical Engineering.

Energy Control Systems Limited was formed in 1986 as a research and development company by Mr. John Brazil of the Department of Control Systems and Electrical Engineering in order to develop control systems for small hydroelectric installations. Since then, it has also developed innovative control equipment for offshore engineering projects and for automotive transmission systems.

The company has succeeded in obtaining substantial financial assistance from the EC, CTT, Eolas and IDA; the most significant grants obtained to date being:

- (i) An EC grant of IR£75,000 towards hydro research.
- (ii) An EC grant of IR£82,000 towards offshore engineering research.
- (iii) A further EC grant of IR£83,000 towards hydro research.
- (iv) An Eolas grant of IR£17,000 towards automotive transmission research.
- (v) An IDA grant of IR£20,430 towards hydro research.
- (vi) An IDA grant of IR£56,375 towards offshore engineering research.

- (vii) An EC grant of IR£46,000 to fund the transfer of the developed hydro technology to Thailand.
- (viii) Various CTT travel grants worth IR£2,500.
- (ix) Various Eolas travel and subsistence grants worth IR£1,500.

The company is currently building up industrial contacts throughout Europe and South East Asia and will undertake joint research projects with other European partners in 1991.

Company: Sensory Instruments Ltd.
Board of Directors: Brendan Halligan,
Chairman; David O'Brien, Managing
Director; Peter Davison, Secretary;
Thomas Grennan, Technical Director;
Pádraig Bennett, Director;
Thomas Hardiman, Director.
Department: Physics.

Sensory Instruments Ltd was incorporated in 1989 by three lecturers from the Department of Physics in the Dublin Institute of Technology, Kevin Street for the purpose of designing, developing and manufacturing new instruments for testing the performance of the eye using new technology. The Company combines expertise in physiology of the eye, optical physics, optometry, electronics and computer programming.

Instruments currently under development include two devices for the automated testing of night vision and one for detection of glaucoma. Irish and foreign patents have been filed on the night vision instrument. The company is now making plans for a manufacturing start-up early next year.

Applications for the instruments are in the following areas: (i) hospitals, clinics and consulting rooms, (ii) detection of damaging effects on vision and general health in malnutrition, and (iii) personnel selection and health monitoring, for example, pilots.

The Company's board has a strong commercial bias provided by its non-executive directors. The Company employs five people at present, however this will increase during the manufacturing start-up. Recently, detailed marketing has taken place in France, Germany, Britain and the United States with significant success. Distribution options are being considered at present.

Financial support has been obtained from the Industrial Development Authority, Coras Trachtala and Eolas. In addition, the Bank of Ireland has provided financial assistance to the Company. This follows the Company's success in winning second prize in the

1989 Bank of Ireland / Sunday Independent "Start Your Own Business" competition.

It is the Company's policy to research, develop and manufacture ophthalmic instrumentation for the export market, while providing skilled employment in Ireland, at a profit.

Company: Atlantech Ltd.
Founder Directors: Mr. John F. Dalton
and Dr. Brendan A. O'Sullivan.
Department: Electronic and
Communications Engineering.

Atlantech was set up in 1989 to design and manufacture specialised solid-state memory systems for industrial applications. These novel memory products are removable and non-volatile and were designed to satisfy a niche market where reliability in the presence of harsh electrical and environmental conditions is a primary consideration. Further R & D work is currently being undertaken using evolving semiconductor technology to address other identified needs within the industrial market sector.

The company enjoys full IDA support under the Enterprise Development Programme and is working closely with CTT in implementing a marketing strategy for markets outside the UK and Ireland.

Company: Automation and Control Engineering Ltd. Founder Director: Mr. David Berber. Department: Control Systems and Electrical Engineering.

This company was founded in 1988 to make a service available to industry for the development of factory automation and control systems based on programmable controllers, industrial computers and single-chip controllers. It is also involved in the design and implementation of factory monitoring systems; these are used to improve the overall efficiency of management systems.

The company has to date been involved in a variety of projects in automation. Typically, they have involved the replacement of existing controllers with modern and more efficient systems resulting in considerable savings in manufacturing costs and improved output.

Automation and Control Systems Ltd operates in co-operation with the DIT Product Development Centre and the Bolton Trust.

Company: Inter-Natural Synthon. Founder Director: Dr. Marie Keating. Department: Chemistry.

The aim of the company is to develop suitable chiral synthesis systems for use in chemistry. Chiral Synthesis is a rapidly developing area with scope for use in many branches of Industry.

Financial support has been obtained for a specific project from Eolas and other investors



In 1935 the Irish Bakers and Confectioners Union founded the Dublin Bakery School so as to provide formal technical training for the bakery trade in Ireland. In 1937 the School was integrated into the CDVEC as part of its technical education programme, and was housed in what was then known as the Kevin Street Technical Institute.

Today the National Bakery School of Ireland provides a variety of craft, technical and management courses for the bakery and food manufacturing industries. These include:

- Diploma in Bakery Production and Management
- Certificate course in Bakery Craft and Techniques
- Cake decoration and design course
- City and Guilds of London Institute Certificate courses in food production and management
- Short-duration courses designed specifically for industry.

The National Bakery School also provides assistance to industry in the areas of product development, quality control and hygiene, technical training and staff development.

The photograph shows two Bakery Certificate students, Paul Murphy and Derek Thomas, both employed with Superquinn Ltd, demonstrating their skills in the making of plaited bread.

SECTION C

Careers Advisory Service
Chaplains
Student Counselling Service
The Students' Union
College Clubs and Societies

SEIRBHÍS GHAIRM TREORACH

It is not unnatural for students just commencing a three or four year programme of study, to feel that matters concerning their post-graduate career will be of little concern for some years to come. In some respects this is true. There are, however, certain choices which students will have already made such as the school subjects they have studied, the third level courses they have applied for and others which they will make at intervals over the next few years which have a bearing on the direction of their future career. The Careers Advisory Service can be helpful to the student in dealing with these choices.

In essence the Service provides information, advice and placement assistance. The placement activity is primarily directed towards the needs of final year students and students seeking career oriented summer employment in their penultimate year. The service to new students is largely one of advice and information.

The courses of academic study which students enter will develop their skills, their base of expertise and their personal qualities in a way suitable to the needs of employers and of the community at large. However, employers who recruit staff from the pool of new third level graduates look for additional indicators of suitability. It is prudent, therefore, for the new student to consider how leisure and vacation time may be best used to amplify the educational and training content of his or her course of study. The staff of the Careers Advisory Service can assist in this regard and in other aspects of career preparation.

The office is located in Rooms 58 and 59 on the ground floor.

For Careers in Applied Sciences, Health Sciences, Food Science and Computing/ Do Ghairmeacha san Eolaíocht Fheidhmeach, Gar-Leighis, Biaeolaíocht agus Ríomhaireacht:

Dr. D.C. Hickey Tel: 757541 ext. 336

For Careers in Engineering/ Do Ghairmeacha san Innealtóireacht:

Mr. C. Bruce Tel: 757541 ext. 335

SÉIPLÍNEACHA

The Chaplains form an integral part of life in the College as a Community. Their work is primarily one of pastoral care, and is directed to all who work in the College.

One of their aims is to encourage the integration of personal, social and spiritual development with academic effort and achievement. The Chaplains are a useful source of general information, and refer people to the specialist caring services both within and without the CDVEC system.

There are many opportunities for people interested to become involved in various groups: a College Folk Group who add a lot to our liturgical occasions, especially to the seasons of Advent and Lent; there's scope for social action, or outreach to the elderly, homeless and the alone in the local area in collaboration with the St. Vincent de Paul Society; in recent years, students have involved themselves with Amnesty International, and an Ecumenical Group has been launched in the College in co-operation with the College in Bolton Street. An annual retreat for third level students is organised.

We are easily contacted in our offices on the second floor, R249, close to the link between the old and new buildings. You are welcome to call anytime.

Catholic:

Fr. Brendan Staunton SJ, Milltown Park, Dublin 6. Tel: 2698411. Sr. Fiona McSorley OP,

461 Griffith Avenue, Dublin 9.

Tel: 374523.

Church of Ireland:

Rev. Nigel Dunne, St. Mary's Lodge, Clyde Lane, Dublin 4. Tel: 602904.

Methodist:

Rev. Kenneth Lindsay, 32 South Hill, Dartry, Dublin 6. Tel: 974103 or 772941 ext. 1417.

Presbyterian:

Rev. Frank Sellar, 5 Maple Road, Clonskeagh, Dublin 6. Tel: 2694922.

SEIRBHÍS COMHAIRLEARACHT

A professional counselling service is available to students in the College. The staff involved in providing this service are Susan Lindsay, full time counsellor, Anne McGuirk and Linda Mackin, both part-time student counsellors.

The student counsellors are happy to see students about any matter that might be giving rise to concern, such as personal, social, academic, financial etc. You don't need to have enormous problems before an appointment is made. If you are concerned or worried then it will help just to talk things over with someone who will offer a sympathetic ear and who will be able to help you develop more effective coping strategies.

The student counsellors also provide practical help to any student who wishes to improve his or her study skills and examination techniques.

The student counsellors can be contacted every Wednesday and Thursday in the College in Room 58, ext. 335 from 10.30 to 5pm. Appointments can be made by phoning 611134 on Monday or Tuesday, or 727177 ext. 366 on Friday (14.00 – 17.00).



The Geese that laid the Golden Eggs? – Winners in the 1991 Great Egg Race Competition.

Each year, a Great Egg Race is organised by Dr. D.C. Hickey, Department of Physics. Prizes are sponsored by the Bank of Ireland, with a staff prize sponsored by the Student's Union.

The challenge this year was to construct a vehicle to transport an egg around a circle of at least five metres diameter. The object was to achieve the closest return to the starting position.

Photograph shows, from left to right:

Ciarán Tyner (Applied Physics), 'Most Amusing Entry'; Tim Doyle (Electrical Engineering), Mick McKeever, (Post-Graduate Student, Electrical Engineering Department), 'Joint Worst Entries in Egg Race History'; Dr. Des Hickey, Department of Physics, Organiser; Mrs. Marjorie Shaw, Student Officer, Bank of Ireland (Sponsors of Student Prizes); Karl Langan (Applied Sciences), First Prize; Neil Armstrong (Applied Physics), Best Loser; Sandy Campbell, Department of Physics Technician, Staff Winner.

AONTAS NA MAC-LÉINN

The Students' Union is a representative and service organisation for students in the College. All students are full members of the Students' Union and as such, are entitled to use the facilities and avail of all services provided by it. The Union is funded by the CDVEC on a per capita basis. It is directed by an executive committee, which is elected each year. The executive committee consists of seven members; two full-time officers, the President and Deputy President, and 5 part-time officers.

The Union's main purpose is to represent the views and interests of students at every level of the Dublin Institute of Technology structure. Each Students' Union president is a member of his own College Council. One president sits on the Institute's Governing Body and one on the CDVEC.

Within the College the Students' Union can assist and advise on academic problems which a student or group of students may have.

The other main area of work for the Students' Union is the provision of services. These include information, help and assistance on a vast range of topics which include virtually any problem of an academic, financial or personal nature. The Deputy President is a full-time welfare officer and

receives training in many of the areas in which he/she may be asked to help or advise on.

Other areas in which the Union can help include legal difficulties, travel, accommodation, tenants rights, grants and scholarships, social welfare and health entitlements, bank loans and overdrafts, summer holiday employment and graduate employment.

The Union also provides other services of a more direct nature. The Students' Union shop sells stationery and course related supplies at a heavily subsidised rate. It maintains a recreational area, and also provides a subsidised photocopying service. The invaluable student identity card (or USIT card) is available from the Students' Union office.

The Students' Union provides entertainments in the College every week. Every Tuesday a lunchtime gig is organised featuring many of the up and coming bands in Ireland. Musical nights are arranged for Wednesdays and film shows on Thursday. A range of other social and celebration functions are held at the appropriate time each year.

An Accommodation List is compiled by the Students' Union in the Dublin Institute of Technology every Summer. It contains details of over 600 flats and lodgings situated near the Colleges. If you wish to obtain a copy, please 'phone the Students' Union.

CUMAINN AGUS CAIDRAIMH AN CHOLÁISTE

There are fifteen societies and over thirty sports clubs in the College. These are funded by the Students' Union and membership is available to every student in the College.

Freshers' Day during October is the best opportunity to see what each club or society has to offer. On Freshers' Day each organisation presents an information stand in the Gleeson Hall in an attempt to attract new members. All clubs and societies can also be contacted through the Students' Union officer.

Sports Clubs / Cumainn Spóirt:

Badminton Basketball Board Sailing Chess

Cross Country

Darts

Gaelic Football

Handball Hurling

Judo Karate

Kavak Club

Mixed Hockey

Mountaineering

Orienteering

Rugby

Sailing

Soccer

Sub Aqua

Swimming

Table Tennis

Tae-Kwon-Do

Tennis

Track & Field

Volleyball

Water Safety

Yoga

Societies / Caidraimh

Bakery

Christian Union

Computer

Drama

Engineering

Green Alliance

Home Brew

Iota (Cumann Gaelach)

Music

Nutrition

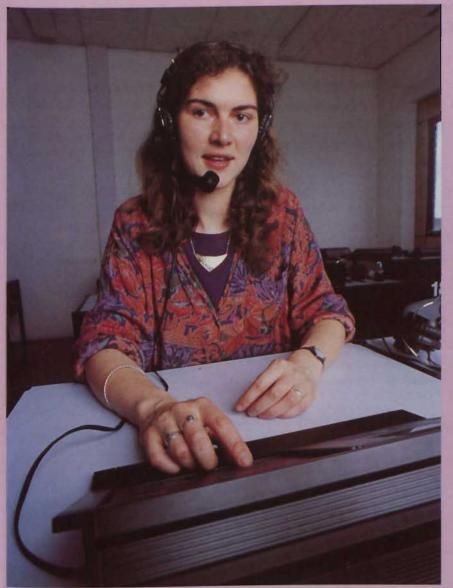
Photographic

Scientific

Social & Cultural

Technician

Women's Group



Le français vous tend les bras à DIT Kevin Street!

Isabelle Soudry, professeur de français, au travail dans le laboratoire de langues.

SECTION D

Entry Requirements

Method of Application

CAO/CAS/DIT Timetable 1991

Schedule for Applicants seeking Entry to Wholetime Courses in 1991/92

Selection Procedures for Wholetime Courses

Schedule of Offers

Special Cases

Overseas Applicants

Grants and Scholarships

Admission and Enrolment

Attendance at Classes and Courses

Examinations

General Examination Regulations Pertaining to Wholetime Courses

Conduct and College Regulations

CÁILÍOCHTAÍ RIACHTANACHA

A. Leaving Certificate

In general terms, the minimum academic requirements for future entry to courses will be as follows:

(a) For Diploma in Applied Sciences:

Passes in six subjects in the Leaving Certificate Examination with the additional provisos that (i) English and Mathematics are two of the subjects, (ii) Grade B at Ordinary Level or higher be achieved in Mathematics, and (iii) at least Grade C be achieved in two Higher Level papers to include one of the following subjects: Mathematics, Applied Mathematics, Physics, Chemistry, Physics and Chemistry, Biology, Agricultural Science, Engineering, Technical Drawing.

(b) For Honours Diploma in Electrical/ Electronic Engineering:

Grade C or higher on Higher Level Papers in both Mathematics and Physics and Pass levels in four other subjects in the Leaving Certificate Examination including English.

From 1992 onwards, the minimum entry requirements will be as follows: passes in six subjects in the Irish Leaving Certificate, including English, with Grade C or higher in Higher Level papers in Mathematics and one of Physics, Chemistry, Physics with Chemistry,

Applied Mathematics or Engineering.

(c) For BSc(Human Nutrition and Dietetics):

Irish Leaving Certificate in six subjects with Grade C or higher on at least THREE subjects taken at Higher Level, one of which must be Chemistry and passes in three other subjects. English and Mathematics must be included in the six subjects.

(d) For Certificate in Medical Laboratory Sciences:

Irish Leaving Certificate in six subjects with Grade C or higher in two subjects on Higher Level papers, one of which must be Chemistry. Subjects passed must include Mathematics, with a minimum of Grade C at Ordinary Level, and English.

(e) For Diploma in Computer Science:

Irish Leaving Certificate in six subjects with Grade B or higher in Ordinary Level Mathematics, and with Grade C or higher in two subjects on Higher Level papers; subjects must include Mathematics and English at either level.

(f) For Technician Diploma in Photography:

Grade C or higher in two subjects taken at Higher Level in the Leaving Certificate Examination and pass levels in four other subjects in the Leaving Certificate Examination. (Mathematics, with at least a Grade C on the Ordinary Level paper and English must be among the subjects passed in all cases.)

(g) For Diploma in Languages and Business:

Irish Leaving Certificate in five subjects, including English and Mathematics with Grade C or higher on the Higher Level papers in French or German or Spanish.

(h) For other courses:

requiring Leaving Certificate standard for entry: Pass in English, Pass in Mathematics (with above minimum grade specified in some cases), Pass in three other subjects.

Tábla Íos-Cailíochtaí Árd Teistiméireachta Riachtanach do Chúrsaí Lánaimsearacha

Irish Leaving Certificate

CAUCAS COUES	CAS CLUBE.	Str Sup.	Five	Three L	Two Hom	Wanda	Manga.	Other A	Weight.	College Codes
FT21		•			•	НС	. •	i	•	SEE
FT22		•			•	ОВ	•	ii		WSAD
FT23		•		•		•	•	iii		WBD
DT 200	DT 60		•		A POLICE	•	•			WBT
DT 214	DT 64	•			•	ОС	•	iv	1	WML
DT 231	DT 47		•			ОВ	•			WEET
DT 244	DT 50		•		I District	•	•			ESED
DT 255	DT 38		•			•	•	v		WLBS
DT 266	DT 40	•			•	ОВ	•			WMT
DT 272	DT 65	•			•	•	•			wso
DT 273	DT 62		•			•	•			WAS
DT 276			•			•	•	6		WASDT
DT 278	DT 63	•			•	•	•			WASPH
DT 285				المليون		•	•			WRAL
DT 287	DT 48		•			ОВ	•	ALL P		WRTT/WRS
DT 289	DT 49		•			•	•			WRCE

- Results must include a Grade C or higher on Higher Level Physics.
- ii Results must include a Grade C or higher on Higher Level papers in one of the following:
 Mathematics, Applied
 Mathematics, Physics, Chemistry, Physics with Chemistry, Biology, Agricultural Science, Engineering, Technical Drawing.
- iii Results must include a Grade C or higher on Higher Level Chemistry.
- iv Results must include a Grade C or higher on Higher Level Chemistry, with at least Grade C on Ordinary Mathematics.
- Results must include a Grade C or higher on Higher Level papers in one of the following:
 French, German, Spanish.

B. Senior Trade Certificate

Students holding the Senior Trade
Certificate of the Department of
Education with one endorsement in
Mathematics or a Science subject will
satisfy the minimum entrance
requirements for courses in the Dublin
Institute of Technology which specify a
pass in the Leaving Certificate
Examination as the entrance requirement.

Where endorsements subjects are not offered in the trade examination, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

C. General Certificate in Education

Candidates may present either —

(a) 3 A-Levels or (b) 2 A-Levels and 2

O-Levels or (c) 1 A-Level and 4 O-Levels or (d) 6 O-Levels.

D. International Baccalaureate

The minimum entry requirement with this qualification is:

- (i) For Professional/Degree Courses:Two Subjects at Grade 5 (Higher Level) and four subjects at Grade 4.
- (ii) For Non-Professional Courses: Five Subjects.

International Baccalaureate grades can be equated to Leaving Certificate grades and the points calculation made accordingly.

Leaving Certificate requirements such as Mathematics and or English would also apply in the same way for I.B. However specific course requirements must also be satisfied in common with Leaving Certificate applicants.

E. Career Foundation Courses in CDVEC Schools

Applicants may gain entry to a course by this mechanism if they meet the appropriate standard.

F. Equivalent Qualifications

Attainment which the College regards as equivalent to those specified in A to E may be acceptable.

G. Deferred Entry

Applicants may be permitted this facility under certain agreed conditions. An applicant who is offered a place on a DIT course and who wishes to defer entry to the course for one year must comply with the following procedures:

- 1. The offer of a place should **not** be accepted through the normal procedures (i.e. completing and returning the CAO/CAS offer notice as issued to applicants).
- 2. The applicant should write to the Admissions Office, Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2, requesting a deferment for one year and explaining his/her reasons for seeking it.
- 3. The letter requesting deferment must arrive in the Admissions Office not later than two days before the Reply Date for the offer of the place.

- 4. The letter should indicate:
- (i) The applicant's Application Number.
- (ii) The Title and Code of the Course already offered.
- (iii) The reason for the deferment.
- 5. If the request for deferment is refused the offer of the place will be re-issued to the applicant in the subsequent Offer Round.
- 6. If the request for deferment is granted the applicant will be so advised, and will be required to accept the deferred place and pay an appropriate deposit before 1st May of the following year.

Notes:

- (a) Deferment will not be granted to facilitate an applicant in taking another DIT course or a course in another third level education institution.
- (b) the number of deferments granted in any year will be limited and will depend on the nature of the course and the case made by the applicant.

In some cases the College may demand a pass, or a particular grade of pass, in specific subjects including subjects additional to those set out above, particularly where such subjects are required by external examining or other bodies. Where the entry requirement to a particular course is other than as stated in A to E above, such requirement will be found under the relevant course heading.

The attention of all students is directed to the General Regulations for Schools and Classes operating under the Authority of the City of Dublin Vocational Education Committee which are displayed in the College.

MODH IONTRÁLA

(a) Diploma/Degree Courses in CAO/CAS Scheme

The following degree courses are included in the CAO/CAS scheme. Graduates of these courses are awarded DIT Diplomas. They are also eligible for degree awards of the University of Dublin (Trinity College).

CAO/CAS Code	College Code				nimu oints '89	in
FT21	SEE	Honours Diploma in Electrical/Electronic Engineering BSc(Eng)		33	36	30
		Specialisations				
		Electrical Power	4			
	No. of Lot, Lot,	Control Systems	4			
		Electronics, Communication and Computers	4			
FT22	WSAD	Diploma in Applied Sciences				
		BSc(Applied Sciences)		27	27	28
		Options				
		Chemistry and Physics	4			
		Chemistry and Mathematics	4			
		Mathematics and Physics	4			
		Mathematics and Computer Science	4			
		Computer Science and Physics	4			
		Food Science and Food Technology	41/2			
FT23	WBD	Diploma in Human Nutrition and Dietetics				
		BSc(Human Nutrition and Dietetics)	41/2	37	37	39

^{*} See note on selection procedures.

NOTE: Not all applicants who scored the above number of points obtained places.

Applicants for the preceding degree courses in the CAO/CAS scheme should apply to:

CAO/CAS, Tower House, Eglinton Street, Galway. Telephone (091) 63318 / 63269.

It is essential that applicants adhere to the procedures described in the CAO/CAS Handbook.

CAO/CAS CLOSING DATE: EC Applicants — 1st Feb. 1991 (17.15 hrs)

APPLICATION FEES:

EC Applicants - IR£18.00

Late Application Fee

(up to 1st August 1991) - IR£40.00

Notes:

Applicants are advised to read the 1991 CAO/CAS Handbook carefully before making application.

- (i) When submitting an application to CAO/CAS, applicants should ensure that all information entered on the form is accurate and legible. CAO/CAS makes a charge for the return of incorrect and/or incomplete application forms.
- (ii) There will be a period of grace for the receipt of EC applications during which time applications may be accepted at a fee of IR£26.00. This period will last from February 2nd to March 31st inclusive.
- (iii) Re-applications will not be accepted in respect of any DIT degree level courses in CAO/CAS scheme.

- (iv) Late applications received in CAO/CAS by 1st August 1991 will be considered together with normal applications on the basis of merit. Applications after that date will not be considered.
- (v) Applications from mature and overseas students for DIT courses are subject to the conditions set out in the CAO/CAS Handbook (page 30).

Method of Application

(Contd.)

Modh Iontrála

(b) Professional, Technician and other Wholetime Courses

Application for admission to professional, technician and other wholetime courses listed on the next page should be made to CAO/CAS on the standard form.

DIT Code	College Code	Course Description	Course Duration (years)	Po	nimu ints '89	in
DT 200	WBT	Diploma in Bakery Production and Management	3	-		-
		Degree Programmes in Medical Laboratory Sciences	5			
DT 214	WML	Certificate in Medical Laboratory Sciences	3	38	43	36
DT 215	WBS	Diploma in Biomedical Sciences BSc(Applied Sciences)				
		Major Options				
		Cellular Pathology	2			
		Clinical Chemistry Clinical Immunology	2 2			
		Haematology/Blood Transfusion Science	2			
		Medical Microbiology	2			
DT 231	WEET	Technician Engineering Diploma/Electrical Engineering	3	31	32	30
DT 255	WLBS	Certificate/Diploma in Languages and Business	2/3	41	43	41
DT 266	WMT	Diploma in Computer Science	3	38	38	40
DT 272	wso	Diploma in Ophthalmic Optics	4	46	43	50
DT 273	WAS	Technician Diploma in Applied Science Options		26	26	28
		Biology; Chemistry; Physics	3			
DT 276	WASDT	Technician Diploma in Dental Technology	3	-	-	29
DT 278	WASPH	Technician Diploma in Photography	3		Ε.	28
DT 285	WRAL	Technician Certificate in Electronics (Avionics)	2		-	23
	WRTT	Technician Engineering Diploma/Telecommunications and Electronics	3			
DT 287	WRS	and Technician Diploma in Electronic Engineering	3	33	34	34
DT 289	WRCE	Technician Certificate in Electronics	2	26	28	24

(c) Part-Time, Day and Evening Courses.

It is not necessary to make application for admission to part-time day and evening courses in advance of the enrolment date for the course, unless a requirement is advertised in the national newspapers or specified under the appropriate course.

Interviews and enrolments will commence on Monday, 9th September 1991 and intending applicants should report in person to the College during the scheduled enrolment hours.

PAYMENT OF ENROLMENT FEES FOR ALL COURSES MAY BE MADE ONLY THROUGH BANK GIRO. CASH, CHEQUES, ETC. WILL NOT BE ACCEPTED BY THE COLLEGE.



On 1st March, 1991 the Exhibition 'Irish Eighteenth Century Stucco Work and its European Origins' was opened at the National Gallery by President Mary Robinson.

Photograph shows, from left to right: Mr. D. H. Davison, Head, Photography Section, DIT Kevin Street, who took the photographs and made the Exhibition with Mr. Joseph McDonnell, Curator of the Exhibition and Author of the Book on the Exhibition.

AMCLÁR CAO/CAS/ITBÁC 1991

Friday	February 1	Closing date for applications @ £18.00.
Monday	March 4	Receive initial Masterfiles from Galway.
Friday	March 8	Final date for submission of portfolios.
Monday	March 11	Receive New Masterfile from Galway. Issue invitations for suitability tests.
Tuesday	March 19	Commence suitability tests.
Sunday	March 31	End of "Pending" period. Closing date @ £26.00 fee. Closing date for non-standard Applicants (DIT).
Monday	April 15	Copies of CAO/CAS Forms for Special Category applicants to colleges.
Tuesday	April 16	Issue final reminder to 1990 deferred entry applicants.
Tuesday	April 23	Commence Music Auditions.
Tueaday	April 30	Closing date for acceptance of Deferred places.
Wednesday	May 1	Closing date for Transferee student applications.
Wednesday	May 22	Latest date for dispatch of statements of Application Records by CAO.
Tuesday	June 4	Commence issue of re-enrolment Giros.
Friday	June 21	Colleges supply results of tests/interviews/portfolio assessments to Admissions Office. Colleges supply details for Round Zero offers to Admissions Office, including Special Category applicants.
Monday	July 1	Final date for decisions by Colleges on number of places abailable and number of offers to be made.
Thursday	August 1	Final date for receipt of late applications. Final date for change-of-mind facility.
Monday	August 5	CAO collect GCE (NI) results from Belfast.
Tuesday	August 6	Presentation of data on Northern Ireland applicants.
Friday	August 9	Round Zero Ratings to Galway.
Monday	August 12	Issue of Round Zero offers (to some N. Ireland applicants, to some other applicants whose assessment has been completed and for deferred entry).
Wednesday	August 14	CAO receive Leaving Certificate results from Department of Education.
Thursday	August 15	Receive 1991 Leaving Certificate results from CAO. Receive CAO exam files from Galway. Receive completed Masterfiles from Galway.

Wednesday	August 21	Reply date for Round Zero offers.
Thursday	August 22	Round 1 Ratings to Galway (1.00 p.m.) Late Closing Date.
Friday	August 23	Issue Round 1 offers.
Saturday	August 24	Round 1 offers published in newspapers.
Wednesday	September 4	Reply date for Round 1 offers.
Friday	September 6	Round 2 Ratings to CAO (1.00 p.m.) Issue Round 2 offers.
Tuesday	September 10	Issue of letters to unsuccessful applicants.
Monday	September 16	Reply date for Round 2 offers. After Round 2 there will be a schedule of weekly offer and reply dates.
Wednesday	September 18	Notify CAO of vacent places by 1.00 p.m.
Thursday	September 19	Vacent place advertisement.
Friday	October 25	Close of 1991 Season.

SCHEDULE FOR APPLICANTS SEEKING ENTRY TO WHOLETIME COURSES IN 1991/92

CLÁR d'IARRATHÓIRÍ AR CHÚRSAÍ LÁNAIMSEARACHA I 1991/92

1991

February 1st Closing date for receipt of applications through CAO/CAS.

March 31st Late closing date for receipt of applications through

CAO/CAS on payment of a £26 fee.

August 1st Latest date for receipt of late applications through

CAO/CAS on payment of a £40 fee.

September 23rd First year classes are expected to commence during the week

commencing September 23rd, 1991.

Photograph taken at the Opening of the Joint DIT/University of Industrial Arts, Helsinki, Seminar, which was held at DIT Kevin Street in April 1991 and which brought together photography students from Helsinki, Finland, and DIT Kevin Street to discuss the representation of Ireland in photographic culture. The one-day seminar was opened by the Lord Mayor of Dublin, Councillor Michael Donnelly. Left to right: Patrik Pesonius, Councillor Michael Donnelly, Lord Mayor of Dublin, Juhani Haaparinne, Jaana Partanen, Laura Beloff, Mr. Geoff White, Lecturer in DIT Kevin Street.



MODH ROGHNÚCHÁIN (CÚRSAÍ LÁN-AIMSEARACHA)

Applicants are placed in order of merit in accordance with the following points system allocated to the best results in six subjects (including Mathematics and English) obtained in one or more School Leaving Examinations having regard to the relevant course entry requirements. From 1992 onwards, results obtained in only one Leaving Certificate will be accepted for scoring purposes.

DIT POINTS SYSTEM FOR DEGREE COURSES

	Leaving	Certificate	G.C	S.E.
Points	Higher	Ordinary	A Level	O Level
15			Α	
14	-		В	
10			С	
9	A			
7	В		D	
6	С			F E
5	1/-	Α	E	
4	D			- 1
3		В		A
2		С		В
1		D		С

Note: Special weighting factors are effected on these points for some courses. Details of the weightings are provided later in this Calendar, under the entries for the individual courses.

DIT POINTS SYSTEM FOR COURSES IN SECTION 2 - CAS LIST (2)

Grade Level	A	В	С	D
HIGHER	100	80	60	40
ORDINARY	60	45	30	15

CLÁR TAIRISCINTÍ

Courses in the CAO/CAS Scheme

The first Offers will be published in the national newspapers in late August and then confirmed in writing to the applicants.

Subsequent offers may be made until the number of places available have been accepted in accordance with the CAO/CAS regulations.

Applicants who have been offered places should note carefully the acceptance procedure particularly in relation to the payment of a deposit and the final date of acceptance of an offer.

Non-compliance with the acceptance procedure will result in the place being forfeited.

CÁSANNA SPEISIALTA

The following types of applicants are treated as special cases and are processed separately from the main stream of applicants.

(a) Trade Students

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science Subject satisfy the minimum entrance requirements for courses in the College which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education is an acceptable equivalent.

(b) Mature Students

A mature applicant who is 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may be required to sit and pass an entrance test or a suitability test before admission.

(c) Holders of NCEA National Certificates and Diplomas or Similar Level Awards

Applications may be accepted up to 1st May 1991. Applicants should request the College where they have studied for these awards to forward in confidence to the CAO/CAS Office a full transcript of results (including subjects studied and grades obtained) not later than July 31st. The application will not be processed until this has been received. Only applicants with a very high level of attainments have prospects of gaining admission because of the limited number of places available.

(d) Applicants Seeking Exemptions from one or more years of a Course

As in (c) such applicants should ask their former College to forward in confidence to the DIT Admissions Office a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

Applications under (c) and (d) should be made before 1st May 1991 and provisional offers will be made where feasible before 20th June 1991.

MIC-LÉINN EACTRACHA

Overseas applicants must have achieved a standard in English sufficient to enable them to pursue successfully the course of study in their chosen field. Students must make application through their Embassy accredited in Ireland.

Overseas applicants seeking admission to the College should apply not later than February 1st using the standard application form which is available on request. This should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed and also levels and grades obtained.

Aliens Regulations:

All overseas students are subject to these regulations, which deal with their entry into Ireland and their status during their stay.

Overseas students **not** being citizens of a state specified in the SIXTH SCHEDULE below are required to hold a valid Irish visa on arrival in Ireland.

Sixth Schedule:

Andorra Argentina Australia Austria Bahamas Barbados Belgium Bolivia Botswana Brazil Canada Chile

Canada
Chile
Colombia
Costa Rica
Cyprus
Denmark
Ecuador
El Salvador
Fiji
Finland

France Gambia Germany Greece Grenada Guatemala Guyana Honduras

Hondura Iceland Israel Italy Jamaica Japan

Kenya Korea (Republic of) Lesotho Liechtenstein Luxembourg
Malawi
Malaysia
Malta
Mauritius
Mexico
Monaco
Nauru

Netherlands
New Zealand
Nicaragua
Norway
Panama
Paraguay
Peru
Portugal
San Marino
Sierra Leone
Singapore
Spain
Swaziland
Sweden
Switzerland

Tanzania (United Republic) Tonga

Trinidad and Tobago Tunisia Uganda

United States of America United Kingdom and Colonies

Uruguay Vatican City Venezuela Western Samoa Yugoslavia Zambia Zimbabwe

Overseas students coming from states not included in the Sixth Schedule above are advised to contact the Irish diplomatic mission in their home country. Those who do not have a diplomatic mission in their home country must apply to the following address for a visa well in advance of their proposed date of departure:

Consular Section,
Department of Foreign Affairs,
St. Stephen's Green,
Dublin 2.

In their application, students must supply the following information:

Valid Passport Number
Date of issue and expiry of Passport
Date, place and mode of arrival in
Ireland

Letter of admission to University/College Letter indicating the source of funding to cover fees and maintenance.

On arrival, immigration formalities will be completed at the airport, ferryport or at the Department of Justice, 72 St. Stephen's Green, Dublin 2, according to the route taken to Ireland. (For people travelling via London there is no immigration control at port of entry.)

All overseas students, with the exception of students from Great Britain, must register with the Aliens Office within one month of coming to Ireland. On registering, students must produce the following evidence:

Valid Passport
Four Passport photographs
Evidence in the form of a letter that
they are full time students at an Irish
educational establishment
Letter of maintenance from parent/
guardian or scholarship agency
Address of residence in Ireland

Address of Aliens Office:

For students studying in Dublin: Aliens Office, Harcourt Square, Harcourt Street, Dublin 2. Telephone (01) 732222.

The Irish Council for Overseas Students is an independent organisation which offers advice and information on all matters relating to study in Ireland.

Contact:

The Chief Executive, Irish Council for Overseas Students, 41 Morehampton Road, Dublin 4, Ireland.

Telephone +353-1-605233, Fax +353-1-682320, Telex 91490 ICOS EI

DEONTAISÍ AGUS SCOLÁIREACHTAÍ

Local Authority Grants:

Students who register for professional or degree level courses conducted by the College are eligible to apply to the Local Authority, within whose jurisdiction their parents or guardians normally reside, for a Higher Education Grant.

Information on eligibility, conditions and application forms are available from the appropriate Local Authority (County Council or Corporation).

VEC Scholarships:

Students who register for courses leading to DIT Certificate or Diploma awards are eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside, for a VEC Scholarship. Information on eligibility, conditions and application forms are available from the appropriate Vocational Education Committee.

ESF Training Grants:

ESF (European Social Fund) training grants may be available to Irish students aged between 16 and 25 years while they are pursuing certain courses of 1, 2 and 3 years duration, provided

their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance.

AIB Bursaries:

AIB, in association with the Association of Vocational Education Colleges has initiated a series of bursaries, each valued at £1,000 to support and encourage students who have already successfully completed a Certificate course in a VEC College and wish to transfer to a Diploma or a Degree level course in the same sector. Eligible candidates must already have achieved a high level of performance. A recipient shall:

- (a) have achieved a high level of academic attainment at a VEC College; i.e. Credit or Distinction;
- (b) be ineligible for an award under an existing grant or scholarship scheme;
- (c) in the opinion of the College concerned be in urgent need of financial support;
- (d) be recommended by the College for the award.

Application and Award Procedure:

(a) Student application forms available through College administration offices.

- (b) Students to submit application to College Principal.
- (c) Only those applications recommended by the College Principal will be considered by AVEC.
- (d) The total number of recommendations from any one College to be in the order of TWO (2) but not more than FIVE (5).
- (e) Recommendations submitted by Colleges will be considered by an Adjudication Board established by AVEC.
- (f) Decisions of the Adjudication Board in respect of distribution, destination and duration of awards shall be final.
- (g) Where an offer of a bursary is not accepted within the prescribed date it will be offered immediately to the next applicant in order of priority.

The Neltronic Scholarships:

Two Scholarships, of £500 each, are presented annually by Neltronic Limited, to the students with the best overall performances in the second years of the following courses:

Technician Diploma in Electronic Engineering and

Technician Engineering Diploma in Telecommunications and Electronics.

IONADÚ AGUS CLÁRÚ

- 1. In the session 1991/92 the latest date for admission of students to classes commencing in the first term is 12th October, 1991. Only in exceptional circumstances will applicants be admitted after that date and a late entry fee will be payable (for session 1991/92 this fee is £33). Under no circumstances will such applicants be admitted after 31st December, 1991.
- Successful applicants for wholetime courses will be notified in writing as to their date of registration.
 Students attending for registration and enrolment are required to have the following:
- (a) CAO/CAS offer.
- (b) Three copies of a recent passport size photograph signed on the back.
- (c) Section 1 of Giro invoice stamped by the bank verifying payment of the balance of fees due.
- 3. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the class teacher on first attendance at each class of the course. Academic Staff are authorised to refuse admission to any student who does not show his/her Official Receipt.

- 4. Fees are not refundable except where a class or course does not form.
- 5. On the first enrolment, students will be issued with an Identity Card. For this purpose and for the College record students must provide each year, at their own expense, three copies of a recent photograph (not returnable), of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session.

Where Identity Cards have been lost or are no longer usable, three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that a charge of £4 will be made for replacement of Identity Cards.

The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.

6. Change of address or place of employment should be reported to the Registration Section immediately.

- 7. The Vocational Education Committee may change any or all of the syllabus, the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate, or where College resources are deemed inadequate. If for some urgent reason a teacher cannot attend, classes may be cancelled without notice
- 8. No exchange of classes may be made after enrolment without the written consent of the Principal, on the recommendation of the Head of Department.

FREASTAIL RANGANNA AGUS CÚRSAÍ

- 1. Day classes will normally be held between 09.00 and 18.00 hrs each weekday except Saturday. Evening classes will normally be held between 18.00 and 22.00 hrs.
- 2. The Vocational Education
 Committee may expel any student
 without refund of fees, for irregular or
 unpunctual attendance or for any other
 reason which, in the opinion of the
 College Council, justifies suspension
 from the entire course, unless a
 satisfactory written explanation is
 submitted to the Principal.
- 3. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. In particular, protective clothing must be worn by all students using the Chemistry or Biology Laboratories or the College Workshop. Safety spectacles must be worn in all Chemistry Laboratories.
- 4. Students are required to keep such notebooks and record books, and to undertake and submit regularly such homework, project work or other assigned work as may be prescribed by members of the teaching staff.

 Unreasonable failure in this respect may lead to suspension or expulsion.

- 5. Students registered on full-time Courses must pursue their Course continuously unless they are permitted by the Principal to interrupt it for a period of one year. Such permission will only be granted to students who have completed the academic exercises of their class, i.e. are already entitled to join the class next above on their return to College.
- 6. The intellectual property emanating from or associated with any course work or project work or research work directed by the staff of the College for the sole purpose of academic awards, remains the property of the College unless assigned otherwise in writing by the Principal.
- 7. Apprentices and employers are asked to note particularly that since 1st September 1976 details of the employment and the attendance of all apprentices enrolled in release courses are being made available to FÁS, the Industrial Training Authority, whether or not the apprentices are registered with FÁS.

SCRÚDAITHE

- 1. Progress from one year of a course to the next will be permitted only to students whom the College deems to have satisfactorily completed the earlier year and passed the required external and/or internal examinations.
- 2. Students should note that a full attendance at classes in all subjects of their course is expected, and a minimum average attendance of 75% in each subject of their course is required. Students who fail to comply with this requirement without satisfactory explanation will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.
- 3. Examinations may be set by the College at the end of any year, or at any other point of any course, whether or not external examinations are undertaken at the same point.
- 4. Students preparing for examinations of external bodies are required to acquaint themselves with the Current Regulations of those bodies. Insofar as it is possible the College will advise and assist students regarding the procedure they should adopt in respect of the external examining bodies with which they are concerned.

5. The College is a recognised centre for many external examinations including the Department of Education and The City and Guilds of London Institute. Application for entry to these examinations must be made through the College Examinations Office in accordance with the closing dates as indicated on the College Notice Boards. Applications after the relevant closing dates will be accepted only on payment of a Late Entry Fee as stipulated by the regulations of the examining body concerned. (It should be noted that the City and Guilds of London Institute do not consider late entries for their examinations). Where students are in doubt regarding examination arrangements they should make enquiries through the Examination Secretary.

External Examining Bodies:

Department of Education
City & Guilds of London Institute
Institute of Biology
Institute of Food Science & Technology
Institute of Hospital and Health
Services Administrators
Institute of Linguists
Institute of Mathematics & its
Applications
Institute of Medical Laboratory Sciences

Institute of Statisticians
The British Computer Society
The Engineering Council
Royal College of Veterinary Surgeons
The Royal Society of Chemistry

- 6. (i) Each student on a course having mandatory College examinations must make application on or before 15th February 1992 to sit the appropriate Summer examinations and pay the appropriate examination fee, where applicable, when making such application. Where supplemental examinations are held a similar application must be made on or before 18th July 1992 and a similar fee paid by students who wish to sit the Supplemental examinations. Courses to which this regulation is applicable are identified in the Course descriptions commencing on page 11.
- (ii) Students should note that the sole proof that an application has been received by the College is the official receipt issued by the College.
- (iii) The fees for the College Examinations for the session 1991/92 are £33 for all Certificate and Diploma Examinations or any part thereof.
- (iv) Applications for entry to examinations received after 15th February 1992 in the case of Summer

examinations and after 18th July 1992 in the case of Supplemental examinations, will be considered by the College only where they are accompanied by a Late Entry Fee of £33. Under no circumstances will applications for entry to examinations be considered if received later than 29th March 1992 in the case of Summer Examinations or 2nd August 1992 in the case of Supplemental Examinations.

- (v) Students will be admitted to the Examination Hall only on production of the Identity Card issued by the College in addition to the appropriate admission ticket which is issued when and if an application to sit the examination is approved by the College.
- 7. It is the responsibility of each student to ascertain the dates, times and venues of examinations by consulting the appropriate timetables published on the College notice boards. The College does not undertake to provide notices or reminders regarding examinations to individual students. In the case of any uncertainty with regard to examination arrangements, enquiries should be made as early as possible in the Examinations Office.

RIALACHA GINEARALTA SCRÚDÚ DO CHÚRSAÍ LÁN-AIMSEARACHA

All examinations on courses leading to DIT awards in the College are subject to:

- (a) the General Examination Regulations of DIT which are available for inspection in the College Library and
- (b) the Examination Regulations of the College, as listed below.
- 1. Progress from one year of a course to the next will be permitted only to those students who have completed the earlier year and have passed the required examinations as specified in the appropriate course regulations.
- 2. Students on courses having mandatory College examinations are required to pass the sessional examinations of their course at the Summer sitting, or, at latest, at the Supplemental sitting (if any) immediately following each year of study. Those who do not pass these examination sittings will not normally be re-admitted to the course nor be permitted to resit the examination in later years, except with the special permission of the Principal. Where such permission is granted it shall extend to the following Summer and/or Supplemental sitting only. It should be noted that no Supplemental Examinations are held for the final year of any College Certificate or Diploma Course.

- 3. A student who, at the first sitting (i.e., in the case of sessional examinations, the Summer sitting) fails to achieve a pass level as specified in the appropriate course regulations
- (i) in not more than two written papers will be required to resit only the papers concerned at the Supplemental sitting.
- (ii) in more than two written papers will be required to resit all the written papers at the Supplemental sitting or, in the case of final examinations, at the next examination sitting.

What shall constitute a written paper for the above purpose, will be specified in the appropriate course regulations.

- 4. Where mandatory coursework (assignments, projects, etc. as defined in the appropriate course regulations) is specified for any year of a course, failure to achieve the required level of performance in that work, will result in failure of the entire year and the student will not be permitted to sit the supplemental examination (if any) for that year.
- 5. Failure to sit an examination, except in very special circumstances and at the discretion of the Principal, will automatically result in failure in the paper or papers concerned.

- 6. Except in very special circumstances and at the discretion of the Principal, students will not be permitted to sit Supplemental examinations unless they take the sitting of the examination in its entirety.
- 7. A student who fails any paper in the Supplemental examination shall not be eligible to proceed to the next year of the course except in very special circumstances and at the discretion of the Principal.
- 8. In the case of a student whose performance in the majority of papers in a given examination sitting is especially satisfactory but who fails to satisfy in not more than one paper, it will be open to the Examination Board to offset the particularly good performance against the deficiency. In so doing the Examination Board, subject to the specific regulations of each course, will have particular regard to the extent of the deficiency.
- 9. Where illness prevents a student from sitting an examination or any part of an examination of the College a Medical Certificate must be submitted to the College Secretary/Registrar not later than the 4th day following the first occasion on which the student is absent. Medical Certificates received

later than this will not normally be accepted.

Illness will not be accepted as an excuse for absence from examination unless certified as specified above.

- 10. Students wishing for a recheck of an examination result should make written application to the Principal within seven days of the issue of their results, specifying the grounds on which the request is made.
- 11. Appeals against examination results (as distinct from rechecks) must be lodged with the Principal within two weeks of the issue of provisional results. Applicants should complete the Official Form, available from the Examinations Office and pay the prescribed fee (non-returnable).

Technician Diploma in Photography



The first graduates to qualify for the Technician Diploma in Photography received their Diplomas on 3rd November 1990. This qualification is awarded to those who successfully complete the re-structured photography course which may now be taken on a wholetime basis over three years or a part-time basis over five years.

Photograph shows, left to right: Dr. David H. Davison, Head, Photography Section, Veronica Nicholson, Cathy Dignam, Jacqueline O'Brien and Mr. Stephen Coonan, Lecturer, Photography Section.

IOMPAR AGUS RIALACHA AN CHOLÁISTE

- 1. Students must at all times obey the lawful instruction of lecturers and other members of the College Staff. Misconduct in the College or its grounds may lead to supension or expulsion. All lecturers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves.
- 2. Without prejudice to the general power of the Principal to decide whether an alleged offence is major or minor, the following examples would normally be regarded as major offences:
- (a) Conduct which does, or is liable to cause, violence to person or damage to property.
- (b) Conduct which does, or is liable to obstruct, the holding of, or frustrates the purpose in holding, any lecture, class or other instruction given by the College or any laboratory work or any research in the College, or any meeting, hearing or other function (including administrative and sporting activities) authorised to take place within the College.
- (c) Seriously interfering with, or unreasonably impeding members of

- staff of the College in carrying out their duties.
- (d) Theft, fraud or misapplication in connection with funds or property of any kind in College.
- (e) Offences in connection with degrees, diplomas or certificates or annual examinations or tests conducted by the College.
- (f) Falsification or misuse of College records, including degree or diploma or certificate parchments.
- (g) False pretences or personation of others, within or without the College, in connection with academic attainments or financial rewards.
- (h) Refusal or failure to pay a fine or comply with any penalty imposed by the Principal.
- (i) Refusal to produce a College I.D. card at the request of any member of the College staff so authorised or any College security officer.
- (j) Failure to comply with any reasonable fire or safety regulation or instruction.
- 3. The penalties in respect of major offences include reprimand, fine, suspension from academic or other privileges, rustication or expulsion from the College, as well as (in the

- case of damage to property or premises) requirement to make good the damage in whole or in part.
- 4. Students are liable for the cost of repair or replacement of College property damaged by them.
- 5. Since 1st May 1990 students are not permitted by Law to smoke in the College Classrooms, Laboratories, Lecture Theatres, Workshops, Library, Gymnasium, Swimming Pool, Changing Rooms or Examination Hall.
- 6. Students are not permitted to wear overcoats etc., into the College Classrooms, Laboratories, Lecture Theatres, Workshops, Gymnasium or Library. Locker accommodation is available for a considerable number of students on payment of a fee of £15 per session. This includes a deposit of £10, returnable only if the locker is vacated within seven days of the expiry of the period for which it has been granted, and the official receipt is returned when seeking the refund.
- 7. Parking of bicycles is permitted only in the space provided by the College. Students are not permitted to bring cars into the College grounds. Motor cycles may be parked only in the space

provided behind the Church Lane building.

- 8. Students are permitted to use the facilities of the College and particularly of the Gymnasium and Swimming Pool (at those times when supervision is provided by the College), only on the understanding that they do so at their own risk.
- 9. Only College societies and clubs may advertise in the College. Notices may not exceed 75 x 55 cm (2'6"x 1'9") and must be placed on the student notice-boards provided. Chalked notices, stickers and (except in special cases with the permission of the Principal) unattended free-standing notices are forbidden. Not more than one copy of a notice may be displayed on the same board or within 15 m (16 yards) of a similar notice. Advertisements for a particular event must be removed not later than 48 hours after the event. All notices must identify their origin.

The Students' Union may advertise events or activities of interest to students which are not organised by a College society or club.

10. Though all reasonable care is taken, the College accepts no liability

for student property lost, stolen or damaged on the College premises or grounds.



SECTION E.1

Post-graduate Awards 1990 Graduates of the College 1990 Prizewinners 1990

A group who were conferred with the Graduate Membership Diploma of the Institute of Food Science and Technology on the 3rd November 1990.

Back Row, left to right: Carmel Clarke, Niall Conway, Bernadette Rice, Niall Gerlitz, Audrey Dempsey. Front Row, left to right: Deirdre Branigan, Elizabeth Tutty, Stephen Cummins, Patricia Grace.

GRADAIM IAR-CÉIMEACHA 1990

DOCTOR OF PH	ILOSOPHY DEGREE		
NAME	THESIS TITLE	AWARDING BODY	RESEARCH DIRECTOR(S)
McNamara, Mary	Preparation, Spectroscopic and Magnetic Properties of a Series of Metallo-ß- Cyclodextrin Complexes.	National University of Ireland	Russell, R. (DIT) Darcy, R. (UCD)
Roche, Damien	The International Marketing of Educational Services — Implications for Long-Term Policy Planning.	University of Strathclyde	Thomas, M.J. (Strath) Hart, S.J. (Strath)
Rodilla, Vincente	Efectos mutagénicos e inducción de células binucleadas por el <i>cis</i> -diaminodicloroplatino (II) en cultivos de células CHO.	Universidad de Valancia, Spain	Pertusa, J. (Valencia) Mothersill, C. (DIT)

F THE INSTITUTE OF MEDICAL LABORATORY SCIENCE	CES
THESIS TITLE	RESEARCH DIRECTOR(S)
Myoepithelial differentiation in breast tumours.	Cullen, D.; Lawlor, L.
A comparison and evaluation of five Kirchner media for the isolation of Mycobacteria.	Lynch, M.; Scott, T.
An investigation into the suitability of replacing laboratory papainised cells for antibody identification with cells commercially preheated with ficin.	Hickey, B.; O'Rourke, C.
The LUI Elution technique in the prediction of severity of ABO Haemolytic Disease of Newborn.	Hickey, B.; O'Rourke, C.
Evaluation of the Adatab Break-point method for the determination of the susceptibility pattern of <i>Haemophilus influenzae</i> .	Britton, D.; Scott, T.
A study of cervical smears in HIV positive women.	Kane, B.; Lawlor, L.
	THESIS TITLE Myoepithelial differentiation in breast tumours. A comparison and evaluation of five Kirchner media for the isolation of Mycobacteria. An investigation into the suitability of replacing laboratory papainised cells for antibody identification with cells commercially preheated with ficin. The LUI Elution technique in the prediction of severity of ABO Haemolytic Disease of Newborn. Evaluation of the Adatab Break-point method for the determination of the susceptibility pattern of Haemophilus influenzae.

FELLOWSHIP	OF THE INSTITUTE	OF MEDICAL LABORATORY	SCIENCES

THESIS TITLE	RESEARCH DIRECTOR(S)
Evaluation of an enzyme immunoassay method in the diagnosis of syphilis.	Lawlor, S.; Scott, T.
A study of flow cytometry in breast tissue.	Cullen, D.; Lawlor, L.
Haemolytic disease of the newborn foal — a review.	Salmon, M.; O'Rourke, C.
The effects of refreezing on fresh frozen plasma viability.	O'Brien, P.; O'Rourke, C.
The role of blood typing in the Irish Thoroughbred Horse Industry.	Salmon, M.; O'Rourke, C.
	Evaluation of an enzyme immunoassay method in the diagnosis of syphilis. A study of flow cytometry in breast tissue. Haemolytic disease of the newborn foal — a review. The effects of refreezing on fresh frozen plasma viability.

MASTER	IN	SCIENCE	DEGREE
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NAME	THESIS TITLE	AWARDING BODY	RESEARCH DIRECTOR(S)
Nordone, Dominic	Investigation of Artificial Networks with Applications to Image Processing.	University of Dublin	Lynch, R. (DIT) Boland, F. (TCD)
Sinnott, Niall	Design of a Digital Audio Workstation.	University of Dublin	Lynch, R. (DIT) Boland, F. (TCD)

CÉIMITHE 1990

DIPLOMA IN APPLIED SCIENCES

Graduates of this course also qualify for the award of BSc (Applied Sciences) from the University of Dublin with the same Honours Classification as that obtained in the Diploma in Applied Sciences.

NAME	AWARD	NAME	AWARD	NAME	AWARD
Bolger, Edward Joseph	Pass	Kelly, Mary Christina	Honours 2.1	O'Donohoe, Michael John Paul	Honours 2.1
Browne, Judith Elizabeth	Honours 2.1	Kenna, Karl Francis	Honours 2.1	O'Meara, Niall Anthony	Honours 2.2
Conway, Shane Paul	Honours 2.1	Larkin, Brenda Mary	Honours 2.2	Perrem, Robert Lorcan	Honours 2.2
Cooney, Fidelis Thérèse	Honours 2.1	Lee, Brian Joseph	Pass	Porter, Seán Henry Joseph	Honours 2.2
Daly, Philip David	Honours 2.2	McGee, Gerard Anthony	Honours 2.2	Rogers, John Gary	Honours 2.1
Doody, Lynda Thérèse	Honours 2.1	McNamee, Cormac Patrick	Honours 2.2	Russell, Robert Gerard	Honours 2.2
Gilligan, Noel Anthony	Honours 2.2	Macken, Tracey Ann	Honours 2.2	Ryan, Susan Thérèse	Honours 2.2
Glennane, Laura Mary	Honours 2.2	Marron, Pauline	Honours 2.2	Shanley, Fintan Joseph	Honours 2.2
Gunning, Michael	Honours 2.1	Matthews, Sara Louisa	Honours 1	Terrett, Colm Robert	Honours 2.2
Harris, Elaine M.	Honours 2.2	Mullen, Michaela Bernadette	Pass	Tilson, David Mervyn	Honours 2.2
Hurley, Barry Richard	Honours 2.2	Mulligan, Gerard Kevin	Honours 2.2	Turner, Ian Michael	Honours 2.1
Keegan, Raymond Patrick	Honours 2.2	Munnelly, Ann-Marie	Pass		

DIPLOMA IN APPLIED PHYSICS

This course is validated by the Institute of Physics and graduates of this course satisfy the academic requirements for Corporate Membership of the Institute of Physics.

NAME AWARD

Currivan, Lorraine Honours 2.2

Dempsey, Hilary Margaret Pass

DIPLOMA IN OPHTHALMIC OPTICS

NAME	AWARD	NAME	AWARD	NAME	AWARD
Duggan, Shane Thomas Fleming, Conor Gerard Friel, Fergal P. Gavin, Joseph F.	Honours 2.1 Honours 2.1 Honours 1 Honours 1	Leahy, Críona M. MacNaeidhe, Orla Mary McCabe, Arlene Marie Morrin, Aengus Brian	Honours 2.1 Honours 2.1	O'Brien, Caroline M. Redmond-Ronaghan, Declan P. Ryan, Orlaith Mary Stack, Daniel Joseph	Honours 2.1 Honours 2.2 Honours 2.1 Honours 2.1

DIPLOMA IN HUMAN NUTRITION AND DIETETICS BSc(Human Nutrition and Dietetics) - (Winter 1989)

NAME	AWARD	NAME	AWARD	NAME	AWARD
Brady, Sandra Byrne, Louise Amanda Cahill, Rachel Jean Corridan, Bernice English, Eleanor Kearney, Mary Gertrude	Honours 2.1 Honours 2.2 Honours 2.1 Honours 2.1 Honours 2.1	McGowan, Mary Josephine McGrath, Sally-Ann McMahon, Fiona O'Connell, Gráinne Ann O'Connor, Ann Maria O'Hanlon, Carmel Erica	Honours 2.1 Honours 2.2 Honours 2.2	Roche, Nora Ann Sheil, Kimberley Mary Walsh, Sheila Lucia	Honours 2.1 Honours 2.1 Honours 2.1 Honours 2.2 Honours 2.1

DIPLOMA IN HUMAN NUTRITION AND DIETETICS BSc(Human Nutrition and Dietetics) — (Spring 1990)

NAME AWARD Healy, Fiona Mary Honours 2.2

Conway, Niall Joseph

Crawley, Christine Ann

GRADUATE MEMBERSHIP DIPLOMA OF THE INSTITUTE OF FOOD SCIENCE & TECHNOLOG

Tutty, Elizabeth

Walsh, Orla

NAME NAME NAME Barton, Brid Crowley, Gillian Linehan, Sylvia Boyle, Siobhán Cummins, Stephen Monaghan, Tracev Branigan, Deirdre Mary Dempsey, Audrey Mulhall, Marie Josephine Clarke, Mary Carmel Gerlitz, Niall Lawrence Rice, Bernadette Colfer, Barbara Grace, Patricia Frances

Hendrick, Pauline Ann

Kelly, Brendan Joseph

GRADUATESHIP DIPLOMA OF THE INSTITUTE OF BIOLOGY

NAME AWARD NAME AWARD Ball, Raymond Honours 2.2 Finnegan, Michelle Honours 3 McMahon, Patrick Conor Honours 2.2 Cleere, Roisin Honours 3 Finnerty, Andrew Honours 3

MEMBERSHIP OF THE BRITISH COMPUTER SOCIETY PART 2

NAME	NAME	NAME
Byrne, Sylvester	Hore, Dermot	Murphy, Barry
Clancy, Aidan	McAuley, Angela	North, William
Doyle, David	McNamee, Clive	Wheatley, Ron

MEMBERSHIP OF THE BRITISH COMPUTER SOCIETY PART 1

NAME	NAME	
Boland, Kieran	Gallagher, Nóra	McCarthy, Anne
Corrigan, Francis Louis	Halpin, David	Mullin, Michael I.
Cronin, Mary	Kilty, Kevin	O'Donohoe, Philip
de Vere, Gerard	Lawlor, Aengus	Rigney, Mary Patricia
Donaghy, Michael	Logan, Thomas	San

GRADUATE MEMBERSHIP DIPLOMA OF THE ROYAL SOCIETY OF CHEMISTRY

NAME	AWARD	NAME	AWARD	NAME	AWARD
Agnew, Gerard James Campbell, Rose Mary Coffey, Ann Doyle, Ollwen Elizabeth Duff, Thomas Declan Griffith, Siobhán Barbara	Honours 2.1 Honours 2.1 Honours 2.2 Honours 2.2	McKeon, Damian Michael	Honours 2.2 Honours 2.2 Honours 2.2	Moyles, Seán Michael Murphy, Damian Martin Murray, Declan Joseph O'Leary, Clare Mary Sinnott, Deirdre Mary	Honours 2.2 Honours 1 Honours 2.1 Honours 2.1 Honours 2.2

DIPLOMA IN MATHEMATICS / GRADUATESHIP OF THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

This course is validated by the Institute of Mathematics and its Applications, who recognise this qualification as satisfying the academic requirements for Corporate Membership.

NAME	AWARD
Coldrick, Noel Martin	Honours 1
Donoghue, Kevin	Pass
Hayes, Annette Mary	Honours 2.

CERTIFICATE IN MATHEMATICS / LICENTIATESHIP OF THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

This course is validated by the Institute of Mathematics and its Applications, who recognise this qualification as satisfying the academic requirements for Licentiate Membership.

NAME	AWARD
Farrelly, Gerard Martin	Pass
Maher, Michael Gerard	Pass
O'Neill, Francis Joseph	Pass
Ryan, John	Pass

DIDLOWA IN EOOD SCIENCE

NAME	AWARD	NAME	AWARD	NAME	AWARD
Byrne, David James	Credit	Fanning, William John	Pass	Lee, Kenneth Christopher	Pass
Byrne, John William	Pass	Flynn, John Laurence	Credit	Mooney, Brian	Pass
Donegan, Christine Geraldine	Credit	Gleeson, Maurice Francis	Pass	Nolan, Dermot Patrick J.	Pass
Dunne, Joseph Noel	Pass	Hand, Annmarie	Pass	Ward, Frederick Gerard	Pass

DIPLOMA IN MEDI	CAL LABOR	CATURY SCIENCES			
NAME	AWARD	NAME	AWARD	NAME	AWARD
Briggs, Susan Hilary Carney, Michael Cullen, Janelle Colette Doyle, Virginia Eileen Duggan, Mary Griffin, Margaret Esther Harford, John Patrick Harte, Emer Marie	Distinction Pass Credit Pass Credit Pass Credit Pass Credit Pass	Kelleher, Margaret Belinda Kennedy, Enda Kennedy, Anne Marie Lavery, Anne Leahy, Mary Ann Leahy, Sinéad Máire Maher, Bridget Mary McCarthy, Josephine Mary	Credit Credit Distinction Pass Pass Pass Distinction Pass	O'Friel, Mary Yvonne O'Neill, Angela Frances Power, Colm Gerard Riordan, Eugene Scully, Margaret Catherine Slattery, Thomas Anthony Slevin, Eamonn Joseph Stratton, Noel Daniel	Pass Pass Pass
Healy, Elizabeth Maria Hennessy, Noreen Hlalele, Moleboheng Kearney, Anne-Marie	Credit Credit Pass Pass	Murphy, Deirdre Mary Murphy, Mary Bernadette Nyopa, Maleqhoa O'Brien, Patricia Catherine	Pass Pass Pass Pass	Walsh, John Killian Whyte, Catherine Mary Williams, Martina	Pass Pass Pass

CERTIFICATE IN MEDICAL LABORATORY SCIENCES

NAME	AWARD	NAME	AWARD	NAME	AWARD
Brady, John Denis Corcoran, Fiona Elizabeth Costello, Patrick John Cullen, Stephen Francis Donnelly, Anne Marie	Pass Credit Pass Pass Credit	Doyle, Margaret Martina McGonagle, Agnes Mary Murphy, Tracy O'Neill, Deirdre Cathleen Phelan, Maria Ann	Pass Credit Pass Pass Pass	Quinn, Margaret Patricia Ring, Martina Shelley, Susan Ann Shyne, Valerie Patricia	Pass Pass Pass Pass

TECHNICIAN DIPLOMA IN APPLIED SCIENCE (BIOLOGY OPTION)

NAME	AWARD	NAME	AWARD	NAME	AWARD
Batt, Dervla	Pass	Higgins, Jacinta Rose	Pass	Mulcahy, Kerry Patricia	Pass
Brazil, Alison Martina	Credit	Kane, Jean Mary	Distinction	O'Brien, Gemma	Pass
Brennan, Paul Anthony	Distinction	Kearney, Patrick Joseph	Pass	O'Rourke, Jane Geraldine	Distinction
Brogan, Karl Andrew	Credit	Kiernan, Kevin Gerald	Distinction	Ratcliffe, Trena Anne	Pass
Carey, Anne Bridget Mary	Pass	Lanney, Mary	Pass	Roche, Pauline	Pass
Carroll, Richard Matthew	Credit	McAuliffe, Breda Geraldine	Pass	Ryan, Louis Martin	Credit
Conaty, Patrick Bernard	Pass	McGannon, John Joseph	Credit	Sakala, Boniface	Pass
Cooney, Teresa Maria	Pass	McGee, Karen Marie	Credit	Sheehan, Elizabeth Mary	Pass
Duff, Nóra	Credit	Magee, Catherine Ann	Pass	Stoneham, Siobhán	Pass
Dunne, Francis John	Credit	Moran, Caroline Ann	Credit	Teeling, Bernadette Geraldine	Credit
Griffin, Anne-Marie	Pass	Morrin, Fergal Patrick	Credit		

TECHNICIAN DIPLOMA IN APPLIED SCIENCE (CHEMISTRY OPTION)

NAME	AWARD	NAME	AWARD	NAME	AWARD
Boss, Kevin	Credit	Griffin, Ann Marie	Pass	McEntegart, Linda Mary	Pass
Byrne, Anthony Gerard	Pass	Hassett, Mary Martha	Pass	Russell, Eugene Patrick	Pass
Daly, Mary Patricia	Pass	Johnson, Kevin Andrew	Pass	Ryall, Martin	Pass
Doherty, Vanessa Frederica	Credit	Lehane, Patricia	Pass		
Finn, Sharon Mary	Pass	McAteer, Karl Martin	Credit		

TECHNICIAN DIPLOMA IN APPLIED SCIENCE (PHYSICS OPTION)

NAME

Bermingham, Lorcan Martin
Connolly, David Joseph
Donohoe, Patrick Joseph
Doyle, Suzanne Mary
Godkin, Mary
Hetherington, David Patrick

AWARD
Credit
Pass
Pass
Credit
Pass
Distinction

NAME
Kelly, Jennifer Marie
Kennedy, Máireád Mary
McCrea, Kieran
O'Connor, Nuala Isobel
O'Neill, Éimear Mary
O'Riordan, Nichola

AWARD
Distinction
Credit
Pass
Pass
Distinction
Pass

NAME Rawson, Catherine Louise Reville, Martin Joseph Smith, Christopher Michael Turley, Anna Marie

AWARD
Distinction
Distinction
Credit
Pass

TECHNICIAN CERTIFICATE IN APPLIED SCIENCE (BIOLOGY OPTION)

NAME

Comerford, Quintin Dillon, Helen Teresa Gallagher, Nuala Patricia AWARD Credit Credit Pass

Ghent, Anne Carmel McDonagh, Goretti Regazzoli, Vincent Martin Credit Credit Distinction

AWARD

Walsh, Martin Matthew Wilson, Elizabeth Mary

NAME

Pass Distinction

AWARD

TECHNICIAN CERTIFICATE IN APPLIED SCIENCE (CHEMISTRY OPTION)

NAME

NAME

AWARD

Carr, Denis Gerard Lehane, Seamus Daniel McGuigan, Margaret Ann Pass Credit Credit

TECHNICIAN DIPLOMA IN COMPUTER SCIENCE

AWARD

NAME

Barrett, Helena Ann
Brick, Gerald
Cardiff, Hugh Joseph
Devine, Nóra Thérèse
Dunne, Bernard Joseph
Dunne, Eoin Francis
Gallagher, Derek Anthony

Credit
Pass
Pass
Distinction
Credit
Distinction
Credit

NAME
Gavin, Seán Desmond
Gorman, Alan Joseph
Johnson, Colin David
Kavanagh, Helen Clare
Kenny, Paul James
Keogh, John P.
McBride, Paul Charles

Credit Credit Pass Pass Credit Pass Pass NAME

McCreery, Helen
McGovern, Una P.
McMullan, David Louis
Mulally, Ann Maria
Murphy, Carol Anne
Nolan, Allison Marie
O'Callaghan, Paul Patrick

AWARD

Distinction
Credit
Distinction
Credit
Credit
Credit
Credit
Credit

NAME	AWARD	NAME	AWARD	NAME	AWARD
O'Carroll, Jarlath Martin O'Connell, William Gerard O'Donnell, Pauline O'Hara, Noel Martin	Pass Pass Pass Credit	O'Leary, Stephen O'Neill, Donna Quinn, Fiona Margaret Quinn, Fintan Andrew	Distinction Credit Pass Credit	Ryan, Edward Denis Sullivan, Darryl	Distinction Credit
DIPLOMA IN BAKEI	RY PRODUC	CTION AND MANAGEM	ENT		
NAME	AWARD	NAME	AWARD	NAME	AWARD
Convery, Siobhán Helena Flynn, Ann-Marie Keane, Carol Angela	Pass Distinction Pass	McKeown, Suzanne Michele Murphy, Zita Christina O'Grady, David Robert	Credit Credit Pass	Woods, Olive Mary	Credit
TECHNICIAN DIPLO	OMA IN PH	OTOGRAPHY			
NAME	AWARD	NAME	AWARD	NAME	AWARD
Byrne, Thomas Gerard Dignam, Catherine	Credit Pass	Grehan, Florence Nicholson, Sheila Veronica	Pass Distinction	O'Brien, Jacqueline	Distinction
CERTIFICATE IN PR	ROFESSION	AL PHOTOGRAPHY			- Udania
NAME	AWARD	NAME	AWARD	NAME	AWARD
Duncan, Andrea Kildunne, Pauline Ellen	Pass Pass	Leydon, Aisling Mary McGovern, Brian Joseph Patrick	Pass Pass	Ó Braonáin, Robert Wickham, Mark John	Credit Pass
CERTIFICATE IN SC	CIENCES FO	OR NURSES - (Summer	1990)		
NAME	AWARD	NAME	AWARD	NAME	AWARD
Breiden, Jacqueline Burke, Mary Concepta Carroll, Julie Martina Connolly, Katrina Teresa Conroy, Mary Jane Fogarty, Nóra	Pass Credit Credit Credit Pass Credit	Fortune, Brigid Pauline Harkin, Brenda Rosaleen Harte, Noreen Keane, Paula Mary Lally, Mary Catherine Lynch, Mary Teresa	Distinction Credit Pass Credit Credit Pass	McDonnell, Brigid McHugh, Helen Marie Maye, Maura Muldoon, Orla Thérèse Mulleady, Fíona O'Brien, Elizabeth Bernadette	Pass Pass Pass Distinction Credit Pass

NAME	AWARD	NAME	AWARD	NAME	AWARD
Oakes, Seána Mary	Pass	Reilly, Mary Cora	Credit	Sheehan, Paula	Pass
Quirke, Jacqueline Marie	Pass	Shannon, Assumpta Mary Carmel	Credit	Ward, Martina Mary	Credit

CERTIFICATE IN MEDICAL RECORDS AND PATIENT SERVICES MANAGEMENT OF THE IRISH HEALTH SERVICES MANAGEMENT INSTITUTE

NAME	AWARD	NAME	AWARD	NAME	AWARD
Campbell, Louise Casey, Nora Clancy, Noeleen Cull, Caroline Farrelly, Ide M. Flood, Mary	Pass Pass Pass Pass Pass Pass Pass	Grainger, Paula Heery, Niamh Milner, Frances O'Connell, Ita O'Leary, Mary Elizabeth O'Sullivan, Lisa	Pass Pass Pass Pass Pass Pass	O'Sullivan, Margaret Rabbitt, Karen Rutherford, Adrienne Smith, Gabrielle Teague, Valerie Walsh, Joan	Pass Pass Pass Pass Pass Distinction Pass

CITY AND GUILDS OF LONDON INSTITUTE DENTAL TECHNICIAN'S FINAL CERTIFICATE – (Summer 1990)

NAME

NAME

McGeown, Michael Peter Murphy, Paul Francis

CITY AND GUILDS OF LONDON INSTITUTE PART TWO CERTIFICATE IN BAKERY - (June 1990)

Bergin, Jeremiah E. Brady, Colette Bright, Liam Clarke, John Martin Connaughton, Martin R. Dempsey, Philip Donoghue, Gerard Paul Earley, Declan

Feighery, Colm Robert Halion, Martin Kearney, Siobhán McHugh, Denise McManus, Steven M. McShane, Katrina M. Mason, Michael Molloy, James Patrick

Mulcahy, Bernadette O'Connor, Nichola Robinson, Jane Rudden, Ann Sheppard, Pamela Ann Wall, Jeffrey Thomas

NAME

CITY AND GUILDS OF LONDON INSTITUTE BAKERY PRODUCTION, ORGANISATION AND CONTROL (1271) - (June 1990)

NAME

Convery, Siobhán Flynn, Ann Marie NAME

Keane, Carol McKeown, Suzanne NAME

Murphy, Zita Woods, Olive Mary

CITY AND GUILDS OF LONDON INSTITUTE THE CERTIFICATE IN BAKERY HYGIENE AND MICROBIOLOGY (1272) - (June 1990)

NAME

Convery, Siobhán Flynn, Ann Marie Keane, Carol NAME

McKeown, Suzanne Murphy, Zita O'Grady, David NAME

Woods, Olive Mary

ROYAL COLLEGE OF VETERINARY SURGEONS — VETERINARY NURSING EXAMINATIONS Preliminary Examination — (Summer 1990)

NAME AWARD

Behan, Patricia Ann Pass
Devin, Louise Anne Pass
Foley, Kirsten Pass
Lyons, Paula Mary Pass

ROYAL COLLEGE OF VETERINARY SURGEONS — VETERINARY NURSING EXAMINATIONS Final Examinations — (Summer 1990)

NAME	AWARD
Kellett, Deirdre Marie	Pass
Lennon, Máiréad Mary	Pass
Murray, Geraldine Ann	Pass

HONOURS DIPLOMA IN ELECTRICAL/ELECTRONIC ENGINEERING

Graduates of this course also qualify for the award of BSc(Eng) from the University of Dublin with the same Honours Classification as that achieved in the Honours Diploma in Electrical/Electronic Engineering.

NAME	AWARD	NAME	AWARD	NAME	AWARD
Abraham, Seán Charles	Honours 2.1	Hanson, Andrea Maria	Honours 2.2	Nolan, Áine Mary	Honours 2.1
Beausang, Christian Kenneth	Honours 2.1	Hearns, John Edward	Honours 2.1	Nulty, Brian Patrick	Honours 2.1
Brady, Paul John	Pass	Hourigan, Liam Joseph	Honours 2.2	O'Carroll, Finbarr Michael	Honours 2.2
Briggs, Simon Thomas	Honours 2.1	Jackson, Brian Charles	Honours 2.1	O'Connor, Brendan Patrick	Pass
Byrne, Michael John	Honours 2.1	Kehoe, Thomas Patrick	Honours 2.2	O'Donnell, Derek	Honours 2.2
Clancy, Paul Gerard	Honours 2.2	Lave, Bent Sloth	Pass	O'Keeffe, Joseph Denis	Honours 2.2
Cleary, John William	Honours 2.2	Lumsden, Stephen Gordon	Pass	O'Kelly, Rory Francis	Honours 2.1
Connolly, Matthew Gabriel	Pass	McBrien, Ronan Peter John	Honours 2.1	O'Neill, Fergal Phelim	Honours 2.1
Corcoran, Vincent Martin	Honours 2.2	McCabe, Colin Charles	Honours 2.1	O'Reilly, Kevin Patrick (1969)	Honours 1
Cotter, Aidan David	Honours 2.1	McCormac, Stephen Edward	Honours 2.1	O'Reilly, Kevin Patrick (1966)	Honours 2.2
Coyne, Mark Jude	Honours 1	McDonald, George James	Honours 2.2	Phelan, Brian Thomas	Honours 2.1
Crowley, Patrick Anthony	Honours 2.1	McDonough, James Patrick	Honours 2.2	Power, William Joseph	Honours 2.2
Darcy, Owen Adrian	Honours 2.2	McGrath, Ronan John	Honours 2.1	Rabbitte, Carey James	Honours 2.2
Devlin, Neil Joseph	Honours 2.1	McKeever, Michael John	Honours 2.1	Rochford, Allan Jude	Honours 2.1
Dorman, Mark William	Honours 2.2	McKenna, Maurice Christopher	Honours 2.2	Rothwell, James Matthew	Honours 2.1
Dowling, Kevin Michael	Honours 2.1	McNally, David	Honours 2.1	Rowe, James John	Honours 1
Finegan, Marie Frances	Pass	Madden, Noel Christopher	Honours 2.2	Sexton, Timothy Patrick	Honours 2.2
Flynn, Gillian Paula	Honours 2.1	Mitten, Mark John	Honours 2.2	Shanahan, Timothy Gerard	Honours 2.1
Forde, Patrick Anthony	Honours 2.2	Murphy, Anthony Gerard	Honours 2.1	Shanley, John Charles	Honours 2.2
Forkin, Michael Patrick	Honours 2.2	Murphy, Anthony Martin	Honours 2.2	Sylvester, Ronan Thomas	Honours 2.1
Fullam, John Xavier	Honours 2.2	Murphy, Kieran Gerard	Honours 2.2	Thompson, Paul Louis	Honours 2.2
Garvey, Mark Anthony	Honours 2.2	Murphy, Shane Anthony	Honours 2.1	Twomey, Philip Patrick	Honours 2.2
Halligan, Robert Joseph	Honours 2.1	Neary, Barry James	Honours 2.1	Wood, Lorcan Joseph	Honours 2.2
Halpin, Mark Terence	Pass	Neilson, David Cyril	Honours 1	Young, Brendan John	Pass

TECHNICIAN ENGINEERING DIPLOMA - ELECTRICAL ENGINEERING

NAME	AWARD	NAME	AWARD	NAME	AWARD
Berigan, Patrick Thomas Boyle, Conor Joseph Clancy, Brian Conroy, Ben Peter Liam Crampton, Terence Michael Daly, Declan David	Credit Distinction Credit Pass Pass Credit	Dargan, Eamonn John Demangeat, Andrew James Dunne, Joseph Peter Ellis, Karl Henry Fagan, Brian Anthony Feeney, Cathal Eamonn	Credit Pass Credit Pass Pass Pass	Griffin, Joseph Thomas Harty, Thomas Jones, Liam Nicholas Kelly, Michael Kelly, Edwin Paul Maguire, Colm Mahon, Stephen Paul	Pass Distinction Pass Distinction Pass Pass Pass

NAME	AWARD	NAME	AWARD	NAME	AWARD
O'Hare, Paul Anthony Penston, John Michael Price, Niklas Riordan, Anthony John	Pass Credit Pass Credit	Roche, Damian Joseph Scally, James Michael Stynes, David William Sullivan, Enda John	Pass Pass Pass Distinction	Walsh, Frances Wisdom, Neil Graham	Pass Pass

TECHNICIAN ENGINEERING DIPLOMA - TELECOMMUNICATIONS AND ELECTRONICS

			NAME	AWARD
Pass	Dobbyn, Dermot Oliver	Credit	Kenny, Brendan Gerard	Credit
Pass	Dovle, John James	Distinction	Kenny, Ciarán Patrick	Credit
Pass	Flinter, Patrick	Pass	McKiernan, Paul	Pass
Pass	Gillick, Barry Anthony	Pass	Mahon, Gareth Thomas	Pass
Credit	Gilligan, Colman Peter	Pass	Nulty, Shéamus Martin	Pass
Pass	Grant, Stephen John Andrew	Pass	O'Toole, Thomas Anthony	Credit
Pass	Horrigan, John James Martin	Pass	Ryan, Patrick Joseph	Credit
Pass	Houston, Simon Henry	Distinction	Sheppard, John Anthony	Pass
Pass	Keenan, Robert Francis	Pass		
Pass	Kenehan, James	Credit		
	Pass Pass Pass Credit Pass Pass Pass Pass Pass	Pass Doyle, John James Pass Flinter, Patrick Pass Gillick, Barry Anthony Credit Gilligan, Colman Peter Pass Grant, Stephen John Andrew Pass Horrigan, John James Martin Pass Houston, Simon Henry Pass Keenan, Robert Francis	Pass Doyle, John James Distinction Pass Flinter, Patrick Pass Pass Gillick, Barry Anthony Pass Credit Gilligan, Colman Peter Pass Pass Grant, Stephen John Andrew Pass Pass Horrigan, John James Martin Pass Houston, Simon Henry Distinction Pass Keenan, Robert Francis Pass	Pass Doyle, John James Distinction Kenny, Ciarán Patrick Pass Flinter, Patrick Pass McKiernan, Paul Pass Gillick, Barry Anthony Pass Mahon, Gareth Thomas Credit Gilligan, Colman Peter Pass Nulty, Shéamus Martin Pass Grant, Stephen John Andrew Pass O'Toole, Thomas Anthony Pass Horrigan, John James Martin Pass Ryan, Patrick Joseph Pass Houston, Simon Henry Distinction Sheppard, John Anthony Pass Keenan, Robert Francis Pass

SPECIAL SUPPLEMENTARY CERTIFICATE (Integrated Circuit Fabrication)

NAME	AWARD	NAME	AWARD	NAME	AWARD
Behan, Ciarán Joseph	Pass	Doyle, John James	Distinction	Kenny, Brendan Gerard	Pass
Burke, Darren Michael	Pass	Flinter, Patrick	Pass	Kenny, Ciarán	Credit
Byrne, Kevin Mathew	Pass	Gillick, Barry Anthony	Pass	Mahon, Gareth Thomas	Pass
Byrne, Brendan Martin	Credit	Gilligan, Colman Peter	Credit	McKiernan, Paul	Credit
Chase, Gordon Victor	Credit	Grant, Stephen John Andrew	Credit	Nulty, Sheamus Martin	Pass
Clerkin, Patrick Joseph	Pass	Horrigan, John James Martin	Pass	O'Toole, Thomas Anthony	Pass
Collins, James Gerard	Pass	Houston, Simon Henry	Distinction	Ryan, Patrick Joseph	Credit
Culleton, Paul Richard	Pass	Keenan, Robert Francis	Distinction	Sheppard, John Anthony	Pass
Dobbyn, Dermot Oliver	Pass	Kenehan, James	Distinction		

TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

NAME	AWARD	NAME	AWARD	NAME	AWARD
Boland, Paschal Michael	Pass	Ennis, John Gerard	Pass	Geraghty, David John	Pass
Clarke, Patrick Gerard	Pass	Finn, Mark John	Pass	Lawlor, Kieron M.F.	Pass

NAME

AWARD

Loughran, Seán Patrick O'Brien, Michael O'Reilly, Brian John Anthony

Smyth, Ivan Thomas

Pass Pass Pass Credit

TECHNICIAN CERTIFICATE IN ELECTRONICS

NAME

AWARD

NAME

AWARD

NAME

AWARD

Bradley, Colin Francis Carolan, Gerard Anthony Cunningham, James Michael Dwyer, Kenneth Patrick Farrelly, Thomas Grace, Michael Patrick

Credit
Pass
Distinction
Credit
Credit
Credit

Hesnan, Patrick Joseph Keane, Francis Anthony Kennedy, Ian McCarthy, Donal Thomas Murphy, Mark James Redican, Adrian Pass
Pass
Credit
Pass
Distinction
Pass

Stafford, Enda Wade, Paul Michael Walsh, Stephen John White, Martin Anthony

Credit Pass Pass Pass

CITY AND GUILDS OF LONDON INSTITUTE ELECTRICAL ENGINEERING TECHNICIAN'S PART THREE CERTIFICATE - (June 1990)

NAME

Butler, David Patrick Doherty, Derek Joseph Dunne, Paul Martin Fairbanks, Peter E. Hannigan, Declan

NAME

Harding, Ian Thomas Harrison, Alan Edward Kiernan, Robert A. Lindsay, David Mangan, George

NAME

Ryan, Donal Sorohan, John Worthington, Kenneth J.

CITY AND GUILDS OF LONDON INSTITUTE PART TWO CERTIFICATE IN MICROCOMPUTER TECHNOLOGY - (June 1990)

NAME

Blackburn, Kevin M. Butcher, James Cully, Brendan Dempsey, Aidan Paul

NAME

Dorney, Thomas W.G. Griffin, Gerard Kelly, David Peter Kenny, Vincent

NAME

McCarthy, Dominic Nason, Georgina Anne O'Brien, Michael Thomas

CITY AND GUILDS OF LONDON INSTITUTE THE MODULAR PART THREE CERTIFICATE IN MICROCOMPUTER TECHNOLOGY (2233) - (June 1990)

NAME

Browne, William Curley, Adrian B. Hamill, Shay Joseph

NAME

Lyons, Patrick Noone, Joseph Jude O'Reilly, Niall J.A.

NAME

Phelan, Alan William Thurlow, Michael

CITY AND GUILDS OF LONDON INSTITUTE JOINT PART THREE CERTIFICATE IN ELECTRONICS SERVICING WITH THE RTEEB – (June 1990)

NAME

Byrne, Terry Francis Carter, Neville Garvan, Patrick Joseph Hennessy, Gary Joseph

NAME

Kelly, Suzanne Dora Lundberg, Paul McGlynn, Derek P. Molloy, Mark

NAME

Murphy, James Anthony Ryan, Gary Patrick Young, Kevin Joseph

CITY AND GUILDS OF LONDON INSTITUTE MODULAR PART THREE CERTIFICATE FOR TELECOMMUNICATION TECHNICIANS - (June 1990)

NAME

Archer, Paul Edward Bevan, John Michael Blackwell, Brian Rory Campbell, Kieran F. Cannon, William Gerard Carey, John Patrick Cronin, Charles G. Cummins, John Patrick Dooney, Colman

NAME

Harney, Brian Kelly, Derek Gerard Lambert, John Patrick Lavelle, Paul McGowan, Patrick J. McHugh, David John McManus, John Moore, Derek Anthony Nolan, Camillus

NAME

Preston, Robert
Roberts, James Peter
Shatwell, John Joseph
Smith, Richard W.
Thompson, Derek
Varshochy-Monfared, Kazem
Walsh, Finbarr F.
Wiggins, Kevin
Wilson, John Andrew

CERTIFICATE IN EUROPEAN LANGUAGES FOR BUSINESS

NAME	AWARD	NAME	AWARD	NAME	AWARD
Bourke, Deirdre Ann Brady, Marina Brigid Butler, Madeline Byrne, Marion Frances Callaghan, Joanne Corcoran, David Paul Corr, Úna Mary Crosson, Rosemary Jude Crowley, Marie Claire Cullen, Lorna Louise Davis, Rachel Mary Devlin, Rory Francis Duffin, Audrey Mary Evans, Louise Mary	Pass Pass Pass Credit Pass Credit Credit Pass Pass Pass Pass Pass Pass Pass Pas	Flynn, Audrey Rosemary Godley, Karen Ann Herlihy, Sharon Margaret Howard, Carol Ann Illing, Graham Kennedy, Brenda Teresa Long, Gareth Edward McKay, Jean Mary Mongan, Nina Lucy Moore, Jennifer Mulcahy, Eleanor Mary Murphy, Joan Bridget O'Neill, Jacinta Mary O'Rourke, Sinéad Rita	Pass Pass Credit Pass	Redmond, Christine Rodgers, Liesl Thérèse Ruane, Helen Jane Ryan, Catherine Mary Sampson, Nodlaig Shéila Saul, Sharon Ann Seery, Santina Marie Shannon, Leslie Gordon Smithers, Mary Tully, Denise Ann Walsh, Maria Catherine Walshe, Karen Watt, Helen Mary	Pass Pass Pass Pass Credit Pass Pass Pass Pass Pass Pass Pass Pas

INSTITUTE OF LINGUISTS TRANSLATORS' INTERMEDIATE DIPLOMA EXAMINATION - (Winter 1990)

NAME	AWARD	NAME	AWARD	NAME	AWARD
French / English:		Kilbride, Catherine	Pass	Schmid, Irene	Pass
Brown, Colette	Pass	Ryan, Nóra Síle	Pass	German / English:	
Cullen, Paul M.	Pass Pass	English / French:	Pass	Skinner, David Acton	Pass
Curren, Anne Marie Donelon, Heidi Anita	Pass	Stephenson, Catherine F.	rass	Spanish / English:	
Fagan, Patricia Goodman, Aoife	Pass Pass	English / German: Milch, Gabriele	Pass	Haugaard, Rhoda P.	Pass

COLLEGE CERTIFICATE IN ELECTRICAL & ELECTRONIC DRAUGHTING

NAME	AWARD	NAME	AWARD	NAME	AWARD
Dawson, Paul Diggins, Michael Farrell, Damien Gilligan, David	Distinction Distinction Pass Pass	Gorry, Brian Hayes, Philip McCarthy, Eoin O'Brien, Damien	Pass Credit Pass Credit	O'Neill, Alan Water, John	Credit Distinction

SENIOR TRADE CERTIFICATE IN ELECTRICAL INSTALLATION OF THE DEPARTMENT OF EDUCATION – (December 1989)

NAME

Colgan, Declan Thomas Paul Connolly, Andrew Gerard Dillon, Mark Hand, John

NAME

McStay, Eoin Gerard Moran, Martin Paul O'Dara, John Niall Scanlon, Liam

NAME

Smith, Cormac Welsh, Owen Michael

SENIOR TRADE CERTIFICATE IN ELECTRICAL INSTALLATION OF THE DEPARTMENT OF EDUCATION - (March 1990)

NAME

Behan, Thomas Brennan, Damien Francis Callis, Kieran Leo John Droogan, Thomas Maurice Dunne, Paul Andrew Keane, Brian Edward

NAME

Kearns, Mark Joseph Kenny, Michael Gerrard McCarthy, Ronan Joseph Perris, David Anthony Reilly, Terence Joseph Ryan, Stephen Michael

NAME

Talbot, Joseph Gerard Tilley, Eamonn Myles Walsh, Aidan Anthony Ward, Aidan

SENIOR TRADE CERTIFICATE IN ELECTRICAL INSTALLATION OF THE DEPARTMENT OF EDUCATION - (Summer 1990)

NAME

Alcock, Jason Michael
Bourke, Patricia Bernadette
Brierty, Laurence
Byrne, Diarmuid John
Casey, Mark Paul
Cole, Peter Edward
Cuskelly, Brendan
Doyle, Aidan Thomas
Eaton, Edward
Eccles, Robert Patrick
Egan, Michael Jude
Finnie, Shane John
Foran, Patrick John

NAME

Gainford, Bernard
Gill, Derek Francis
Glennon, Ronan John
Gunning, John Joseph
Harney, Peter Anthony
Hennessy, Philip
Heslin, Martin Anthony
Higgins, Anthony Gerard
Jordan, Declan
Keogh, Brian William
Kiely, Joseph Edward
Kiernan, Robert Anthony
Lambert, Finbarr

NAME

McDermott, Kenneth McDonald, Colm McElhinney, David John McEvoy, Brendan Martin McKenna, Mark McMahon, Brian Anthony Maher, Roy Anthony Masterson, Eamon Noel Meegan, William J. Meghen, Ronan Miller, Barry Mulroney, Thomas John Murray, Laurie Gerard

NAME

Nolan, Paul O'Toole, Marc Charles Phelan, Michael Anthony Reilly, Peter Anthony

NAME

Rice, Eimear Roche, Eimear Thérèse Somers, Brendan Wafer, Aidan Robert

NAME

Walker, Martina Elizabeth White, Seán Michael

CITY & GUILDS OF LONDON INSTITUTE ELECTRICAL INSTALLATION WORK COURSE C - (Summer 1990)

NAME

Alcock, Jason
Behan, Adrienne Mary
Black, William
Brierty, Lawrence J.
Carroll, Patrick M.
Coogan, Brian Anthony
Eaton, Edward Anthony
Foran, Patrick John
Gill, Derek Francis
Harney, Peter Anthony
Hayes, Richard J.
Higgins, Paul M.
Kavanagh, Paul John

NAME

Keogh, Brian William Kiernan, Robert A. Lambert, Finbarr Lawlor, Michael John Long, Raymond Patrick McCarthy, Ronan J. McDermott, Kenneth McElhinney, David J. McEvoy, Brendan M. McGuinne, Brendan J. Maher, Roy Anthony Meegan, William J. Meghan, Ronan

NAME

Moore, Peter Finbar Mulhall, James Patrick Murphy, William P. Murtagh, Thomas M. Phelan, Michael A. Quinlan, Ian Michael Ryan, Joseph Martin Somers, Brendan Stanford, William N. Tracey, James Michael Walker, Martina Ward, Aidan White, Seán Michael







Top left:

Dr. B. Goldsmith, Head, Department of Mathematics, Statistics and Computer Science, presenting the John M. Forde Medal to Ms. Christina Kelly. The medal is presented annually to the student with the most meritorious performance in Mathematics in the final examinations of the Diploma in Applied Sciences. Ms. Kelly is currently studying for a Masters degree in Industrial Mathematics at the University of Strathclyde, Scotland.

Top right:

Mr. E.J. Rothery, Head, Department of Chemistry, presenting the Brian O'Keeffe Cup to Vanessa Doherty of Dundrum, Dublin 16, who attained the highest total mark in the Final Examination for the Technician Diploma in Applied Science (Chemistry Option).

Vanessa, who obtained her secondary education in Notre Dame des Missions, Churchtown, Dublin 14 is presently employed with Loctite Plc.

Left:

Ms. Helen Shortt, on right, Chairperson, Irish Nutrition and Dietetic Association, presenting the Institute's Annual Prize for the student who has given the most outstanding performance over the 4½ years of the BSc(Human Nutrition and Dietetics) Course to Mary Gertrude Kearney.

DUAISITHEORÍ 1990

RENSHAW CUP

Established 1936

The objective of this competition is to encourage craftsmanship and quality ideas among students from the Bakery Industry. The judging panel are drawn from the Bakery Industry and the competitors are required to produce a range of almond goods such as macaroons, congress tartlets, japeneire biscuits and other confectionery products. The prize includes a period spent on an Industrial Fellowship at Renshaw Ltd, in Mitcham, England.

Colette Brady

BRISCOE SHIELD

Established 1961

This award was established by the then Lord Mayor of Dublin, the Right Honorable Robert Briscoe TD.

The Trophy is awarded each year to the Bakery Apprentice who scores the highest marks in a practical baking competition. During the five hours allowed for this competition, each apprentice must produce bread and fermented goods such as Rich Irish Barnbracks, Vienna Bread, Sweet Bun goods and a range of Danish Pastries all finished and presented for judging.

Laura Rooney

PAGEBOY AWARD FOR COMMUNICATIONS

Established 1974

Awarded annually to the student with the best performance in the Final Year of the Technician Engineering Diploma – Telecommunications and Electronics.

John Doyle

THE IRISH NUTRITION AND DIETETIC INSTITUTE PRIZE

Established 1975

This Prize is sponsored by the Irish Nutrition and Dietetic Institute, and is awarded to the graduate of the BSc(Human Nutrition & Dietetics) Course who maintained the most consistently high standard over the four years of the course.

Mary Gertrude Kearney

THE JOHN BROPHY AWARD

Established 1978

This award is made annually to the best student in the Final Year Diploma Examination in Medical Laboratory Sciences. The prize, a Sterling Silver Medal, is sponsored by the Medical Supply Company to honour the memory of John Brophy, who was the first fulltime Lecturer in Medical Laboratory Sciences in the College and who served in that capacity from his appointment in 1969 to the time of his death in 1976.

Bridget Mary Maher

THE BRIAN O'KEEFFE AWARD

Established 1978

Established by Mrs. O'Keeffe in memory of her husband Brian, who was a Lecturer in the Chemistry Department, 1964-1974, and it is awarded annually to the student who attains the highest total marks in the Final Year Examination for the Technician Diploma in Applied Science (Applied Chemistry Option).

Vanessa Doherty

INSTITUTE OF IRISH BAKERS CUP

Established 1978

Awarded annually by the Institute of Irish Bakers to the student who has shown the highest standard of artistic merit and craftsmanship on set project work (decorated torte and decorated battenburg) on the Diploma in Bakery Production and Management Course.

Ann Marie Flynn

FALCONER CUP

Established 1978

Awarded annually by the Institute of Irish Bakers to the student who has shown the highest standard of Artistic Excellence on set project work (decorated plaque) on the Diploma in Bakery Production and Management Course.

Zita Murphy

BOLANDS CUP

Established 1978

Awarded annually to the student with the highest marks in Bakery Technology and Applied Science in the Final Examination of the Diploma in Bakery Production and Management Course.

Zita Murphy

INSTITUTION OF INCORPORATED EXECUTIVE ENGINEERS AWARD

Established 1980

This prize is awarded to the student who obtained the highest mark for the Building Services Project in the Final Examination of the Technician Engineering Diploma – Electrical Engineering.

Foint Award

Michael Kelly

Patrick Berigan

THE HARTE-BARRY PRIZES

Established 1981

These prizes, presented annually to the two best students in the Final Examination for the Diploma in Ophthalmic Optics are sponsored by the Opticians' Board to mark the work of its first Registrar, Ivor Harte-Barry.

Fergal Friel Joseph Gavin

FLORA NUTRITION AWARD

Established 1982

A Scholarship Award of £6,000 sponsored by the manufacturers of Flora, W. & C. McDonnells Ltd, and to be used towards post-graduate research in the field of Human Nutrition and Dietetics. It is awarded to the best Final Year student of the BSc(Human Nutrition & Dietetics) Course.

Mary Gertrude Kearney

ERICSSON PRIZE

Established 1983

This prize is sponsored by Ericsson Business Communications and is awarded to the best student in the Final Examination for the Technician Diploma in Computer Science.

David Louis McMullen

LANDIS AND GYR LAKE ELECTRONICS PRIZE

Established 1986

This prize of £100 is sponsored by Landis and Gyr Lake Electronics and is awarded to the student of high academic merit who obtains First Place in the Final Examination for the Diploma in Applied Physics.

Not awarded in 1990

LOCTITE MEDAL

Established 1986

All students taking the Final Examination of the Technician Diploma in Applied Science in Applied Chemistry and Applied Physics are eligible to be considered for this prize. A Sterling Silver Medal is awarded to the student with the best performance in the Final Examination.

Jennifer Kelly

CARDIAC SERVICES PERPETUAL AWARD

Established 1986

Awarded annually to the student with the best performance in the Final Examination for the Technician Diploma in Applied Science (Physics Option).

Jennifer Kelly

CREST / PURATOS AWARD

Established 1986

Awarded annually to the student who received the highest marks in the Final Examinations of the Diploma in Bakery Production and Management Course. This award includes an Industrial Fellowship tenable at Puratos headquarters in Brussels, Belgium.

Ann Marie Flynn

JOHN M. FORDE MEDAL

Established 1987

This medal is awarded each year by the Trustees of the John M. Forde Medal Fund to the student with the most meritorious performance in Mathematics on the Final Year of the Diploma in Applied Sciences. The fund was raised by the many friends and colleagues of John M. Forde, who was for many years

Head of the Department of Mathematics in the College, in recognition of his interest in, and encouragement of, Mathematics in Ireland.

Christina Mary Kelly

I.B.M. AWARD

Established 1987

Cash Prize of £250 made annually to the student who was adjudged to have provided the best project during the Final Year of the Technician Diploma in Computer Science Course.

David Louis McMullen

TELEMECANIQUE AWARDS FOR AUTOMATION

Established 1987

These prizes are awarded to the students who were adjudged to have provided the Best Overall Programmable Logic Controller Project and Best Project Documentation for Programmable Logic Controllers in the Final Examination of the Technician Engineering Diploma – Electrical Engineering.

Best Overall PLC Project

Joseph Dunne

Best Documentation

Liam Jones

PROOFEX CUP FOR FERMENTED BAKERY PRODUCTS

Established 1988

Awarded annually by Yeast Products Ltd. to the student who obtains the highest marks in Bakery Technology, Bread Production Methods & Techniques and Raw Materials Testing in the Final Examination of the Diploma in Bakery Production and Management Course.

Ann Marie Flynn

CARA AWARDS OF MERIT

Established 1988

Two Sterling Silver Medals are presented annually by Cara Data Processing as a mark of meritorious achievement; the first award is to the graduate of the Honours Diploma Course in Electrical/Electronic Engineering (Electronics, Computers and Communications Option) who achieves the best overall performance in the Final Year Examinations; the second award is to the graduate of the Electronic Servicing Course who achieves the best overall performance in the Part III Examinations in Electronic Servicing of the City and Guilds of London Institute.

For Electrical/Electronic Engineering

David Neilson

For Electronic Servicing

Patrick Garvan



The IBM Prize is presented each year to the student presenting the best project work in the final examinations of the Technician Diploma in Computer Science. The photograph shows Mr. Joe Byrne, International Procurement Manager, IBM Ireland Ltd, congratulating the 1990 winner, Mr. David McMullan. Looking on are Dr. Brendan Goldsmith, Head of Department, Mr. Frank Brennan, Principal, DIT Kevin Street and Dr. Brendan O'Shea, Assistant Head of Department.

David is currently working on a Higher Education Industry Co-operation project, funded by Eolas, which involves co-operation between the Department of Mathematics, Statistics and Computer Science and Wescan Ltd.



Mr. E.J. Rothery, Head of the Department of Chemistry, with Dr. D. MacDaeid, Assistant Head, presenting the AGB Medal to Sara Matthews for achieving First-Class Honours and the highest mark in Chemistry in the Diploma in Applied Sciences, June 1990.

Sara received her secondary education in Newpark Comprehensive, Blackrock, Co. Dublin and is currently employed in Newport Pharmaceuticals.

THE NELTRONIC SCHOLARSHIPS

Established 1988

Two Scholarships, of £500 each, are presented annually by Neltronic Ltd. to the students with the best overall performances in the Second Year Examinations of the following courses:

Technician Engineering Diploma in Telecommunications and Electronics

Raymond Kearney

Technician Diploma in Electronic Engineering

Michael Keenan

THE ASSOCIATION OF PHYSICS TECHNICIANS PRIZE

Established 1988

Awarded annually for the Best Final Year Project in the Technician Diploma in Applied Science (Physics Option).

Chris Smith

AGB SCIENTIFIC MEDAL

Established 1988

This Sterling Silver Medal is awarded annually to the student who obtains the highest mark in Chemistry in the Final Examinations for the Diploma in Applied Sciences.

Sara Louisa Matthews

INSTITUTION OF ELECTRICAL & ELECTRONICS INCORPORATED ENGINEERS PRIZE

Established 1988

This prize of £100 is awarded annually to the student with the best City and Guilds Course 'C' project on the SEM 4 Electrical Installation and Maintenance course, and the T1.4 Electrical Installation Course.

Patrick M. Carroll

ELECTRICAL CONTRACTORS ASSOCIATION (ECA) MEDAL

Established 1988

This prize, a Sterling Silver Medal, is awarded annually to the student who has been adjudged the Electrical Apprentice of the year.

Kieran Callis

FRENCH LANGUAGE BOOK PRIZE

Established 1988

This prize is awarded annually by the Ambassador of France to the student who attained the highest mark in French in the Final Examination of the Certificate in European Languages for Business.

Audrey Duffin

GERMAN LANGUAGE BOOK PRIZE

Established 1988

This prize is awarded annually by the Ambassador of the Federal Republic of Germany to the student who attained the highest mark in German in the Final Examination of the Certificate in European Languages for Business.

Jennifer Moore

SPANISH LANGUAGE BOOK PRIZE

Established 1988

This prize is awarded annually by the Ambassador of Spain to the student who attained the highest mark in Spanish in the Final Examination of the Certificate in European Languages for Business.

Carol Ann Howard

THE R.J. WILTSHIRE MEDAL

Established 1989

Established by the Irish Professional Photographers' Association in memory of Reggie Wiltshire who, as President of the Irish Professional Photographers' Association was instrumental in the establishment of the Photography Course at this College.

The medal, a replica of that struck for

the Photographic Society of Ireland in 1858, and awarded to the Countess of Rosse, is awarded annually to the best student in the Final Year Examination in Professional Photography.

Jacqueline O'Brien

HUMAN NUTRITION AND DIETETICS COURSE DIRECTORS' PRIZE FOR PROJECT PRESENTATIONS

Established 1989

The Course Directors' Prize of £50 is awarded to the student, as judged by the Course Directors and Academic Staff, to have made the best oral project presentation for the final year project on the BSc(Human Nutrition and Dietetics) Course.

Kimberley Mary Sheil

FORD MOTOR COMPANY PRIZE

Established 1990

This prize is awarded annually by the Ford Motor Company Limited, to the student in the Final Year of the Diploma in Applied Sciences, with the most meritorious performance in project work of an applicable nature based on mathematical or computational science.

Seán Porter

SIÚCRA/IRISH SUGAR AWARD

Established 1990

Awarded to the student on the Diploma in Bakery Production and Management Course who attains first place in the National Bakery School annual Cake Decoration Competitions.

Garry Wickham

T.M. LAWLESS MEMORIAL MEDAL

Established 1990

This award is made to honour the memory of Terry Lawless. Terry was a member of staff of the Department of Electronic and Communications
Engineering from 1963-1990 and during that time made a major contribution to the development of technician courses in the College. The medal is sponsored jointly by the staff of the College and the members of the Electronics Industry and is awarded annually to the student with the highest achievement on the Electronic Servicing Course.

Patrick Garvan

INSTITUTE OF IRISH BAKERS / START YOUR OWN BUSINESS AWARDS

Established 1990

These Prizes, with a monetary value of

£250 each, are awarded annually to the students who obtained the highest marks in Business Organisation at the Final Examination for the Diploma in Bakery Production and Management, and to the two most outstanding students in the final year of the day release Bakery Certificate Course.

Joint Awards

Zita Murphy Colette Brady Suzanne McKeown Mary McGuinness

FÁS SPONSORSHIP GRADUATE SCHEME 1990 - JAPAN

Name	Course	Country	Firm	Job
Matthew Connolly	A	Japan	Minolta	Electronic Engineer
Colin McCabe Tracey Macken	A B	Japan	Kanto-Seiki Mitsui	Office Automation Engineer
Bernard Mulligan	В	Japan Japan	Kanto-Seiki	Scientist - Mineral Testing Scientist - Device Testing
Kevin O'Reilly	A	Japan	Pioneer	Radio Communications Engineer
Kevin O'Reilly	A	Japan	Seiko	Instrument Design Engineer
Carey Rabbitte	A	Japan	Kanto-Seiki	Electronic Engineer
Robert Russell	В	Japan	Seiko	Scientist - Component Testing
John Shanley	A	Japan	Yazaki	Electrical Engineer

A = Electrical/Electronic Degree Programme

FÁS SPONSOPSHIP GRADUATE SCHEME 1990 - EUROPE

Name	Course	Country	Firm	Job
Neil Devlin	A	Germany	Bruker Eng.	Electrical Engineer
Michael Forkin	A	Italy	Italtel Telec.	Communications Engineer
Maurice McKenna	A	Germany	Bruker Eng.	Electrical Engineer

A = Electrical/Electronic Degree Programme

COMETT FELLOWSHIPS TO EUROPE

The College is pleased to participate in the Commission of the European Communities Comett Programme whose objectives are:

- to give a European dimension to co-operation between universities and enterprises in training relating to innovation and the development and application of new technologies, and related social adjustment;
- to foster the joint development of training programmes, the exchange of experience, and also the optimum use of training resources at Community level;
- to improve the supply of training at local, regional and national level with the assistance of the public authorities concerned, thus contributing to the balanced economic development of the Community;

B = Applied Sciences Degree Programme

— to develop the level of training in response to technological and related social changes by identifying the resulting priorities in existing training arrangements which call for supplementary action both within Member States and at Community level, and by promoting equal opportunities for men and women.

The following students were chosen during the 1989/90 session for Industrial Fellowships under this Programme:

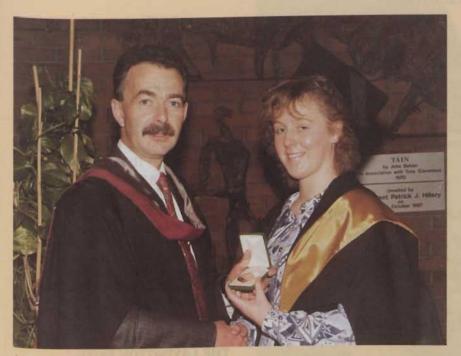
Name	Course	Location
David Dixon	Electrical/Electronic Degree Programme	Fachhochschule Berlin / Siemens Berlin
Thomas Doyle	Electrical/Electronic Degree Programme	P.P. Wiest GmbH, Berlin
Diarmuid Flynn	Electrical/Electronic Degree Programme	Fachhochschule Berlin / Siemens Berlin
D. McCormack	Electrical/Electronic Degree Programme	Servomechonic, Betheme, France



The National Bakery School has excellent ties with industry and this has resulted in many individual companies and organisations offering annual awards to be presented to those students who have distinguished themselves in various areas.

Photograph shows, from left to right:

Ms. Zita Murphy, who won both the Bolands Cup and the Falconer Cup and Ms. Ann Marie Flynn, who won the Institute of Irish Bakers Cup, the Proofex Cup and the Crest/Puratos Award, with Mr. F.M. Brennan, Principal, DIT Kevin Street, after the graduation ceremony at which the awards were presented.



Mr. J. Vaughan, Director of the Diploma Course in Medical Laboratory Sciences, congratulating Ms. Bridget Maher, winner of the John Brophy Award. This award is made annually to the best student in the Final Year Diploma Examination in Medical Laboratory Sciences.

SECTION E.2

National and International Awards obtained by Graduates in 1990

City and Guilds of London Institute Awards

External Examiners for 1991

NATIONAL AND INTERNATIONAL AWARDS MADE TO GRADUATES OF DIT KEVIN STREET DURING 1990

GRADAIM AGUS DUAISEANNA IDIRNÁISIÚNTA AGUS NÁISIÚNTA BAINTE AG CÉIMITHE AN CHOLÁISTE I 1990

JAPANESE FELLOWSHIP

In 1990 the photographer Daniel de Chenu who graduated with Distinction in Photography from DIT Kevin Street travelled to Tokyo, Japan for the opening of a one-man exhibition of his photographs entitled 'The Loving Eye'. The exhibition took place at the Kodak Photograph Salon, Jinza, Tokyo and was supported by a Cultural Relations Committee of the Department of Foreign Affairs in Dublin.

MINISTERIAL APPLIED RESEARCH POST-GRADUATE SCHOLARSHIPS

In October 1990, the Minister for Science & Technology, Mr. Michael Smith TD, announced the winners of the Special Ministerial Applied Research Post-Graduate Scholarships. These Special Scholarships are intended to enable the recipients to undertake applied research towards MSc degrees.

Of the 50 scholarships on offer nationally, seven were won by students who proposed undertaking their research in DIT Kevin Street:

Applied Research Post-Graduate	Department	Research Director(s)
Barrett, Brendan	Physics	Davison, P.A.
Grenner, Anthony	Electronics & Communications Engineering	Downing, C.
Harris, Elaine	Chemistry	Russell, N.
Kenna, Karl	Physics	Hussey, M.
McLaughlin, Josephine	Chemistry	Kavanagh, P.
Murphy, Michael	Control Systems and Electrical Engineering	Brazil, J.
Rochford, Alan	Control Systems and Electrical Engineering	Hayes, R.

THE MARRIOTT PRIZE

Damien Martin Murphy was awarded the Marriott Prize by the Royal Society of Chemistry. This prize is awarded for outstanding achievement in the Graduateship of the Royal Society of Chemistry (Part II) Examinations. Only ten prizes were awarded in 1990 throughout the twenty-four participating colleges in Ireland and the U.K.

Damien Murphy has taken up postgraduate research in the field of advanced inorganic materials, under the direction of Professor E. Giamello (Turin University) and Dr. E. O'Donoghue (DIT Kevin Street).

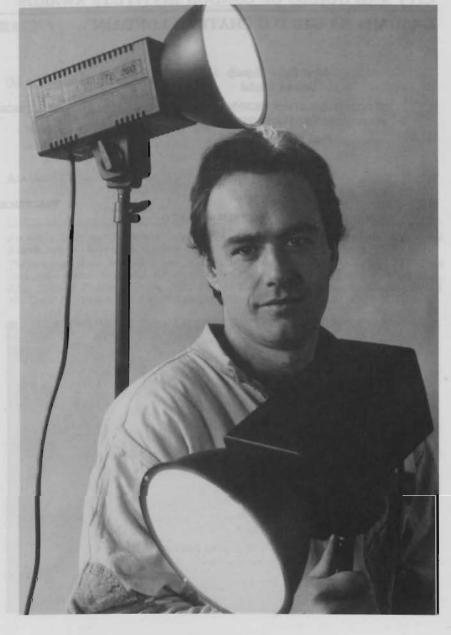
THE LAVINGTON PRIZE

Susanne Traynor was awarded the Lavington Prize from the Institute of Medical Laboratory Sciences, UK. This prize is awarded to the student who obtains the highest overall marks in the Fellowship Examination of the Institute.

Susanne Traynor attended Rockford Manor Secondary School and commenced her studies in DIT in the Medical Laboratory Sciences in 1981. She graduated with a Diploma in Medical Laboratory Sciences in 1986. Susanne undertook her student training in St. James's Hospital and subsequently transferred to St. Vincent's Hospital to the Haematology and Transfusion Department. She has recently received a senior appointment in the laboratory at St. Columcille's Hospital, Loughlinstown.

ASSOCIATION OF ELECTRICAL CONTRACTORS OF IRELAND AWARD

James Mulhall was awarded this cash prize by winning first place in the final examinations of the National Apprentice Competitions 1990 in Industrial Wiring.



Daniel de Chenu.

GRADAIM NA nGILD Ó CHATHAR LONDAIN

First Prize (Equal) Bronze Medal

TELECOMMUNICATION TECHNICIANS PART I TELECOMMUNICATIONS SYSTEMS T1 (1990)

Paul Francis Cribbs

First Prize Silver Medal

TELECOMMUNICATION TECHNICIANS PART II ELECTRICAL PRINCIPLES T3 (1990)

Malachi John Jones

First Prize Silver Medal

TELECOMMUNICATION TECHNICIANS PART II MICROELECTRONIC SYSTEMS T3 OPTION (1990)

Malachi John Jones

First Prize (Equal) Silver Medal

TELECOMMUNICATION TECHNICIANS PART III
CIRCUIT THEORY AND INSTRUMENTATION T5 OPTION (1990)

Kieran F. Campbell

First Prize (Equal) Silver Medal

TELECOMMUNICATION TECHNICIANS PART III
MATHEMATICS T5 OPTION (1990)

Robert Preston

Third Prize Silver Medal

ELECTRICAL INSTALLATION WORK PART II (1990)
Patrick John Flanagan

Fourth Prize Silver Medal

ELECTRICAL INSTALLATION WORK PART II (1989)
Brendan Somers

SCRÚDAITHEÓIRÍ SEACHTARACHA

The appointment of External Examiners will be subject to approval by the Academic Council. The External Examiners will be chosen for their knowledge and experience appropriate to the courses. The normal term of office of the External Examiner will be three years.

Terms of reference may include:

- (a) to moderate examination papers and approve marking schemes for the subjects for which they are appointed;
- (b) to assess examination scripts in the subjects for which they are responsible;
- (c) to assess the final year projects in the subjects/disciplines for which they are responsible;
- (d) to conduct oral examinations of candidates as required;
- (e) as members of the Board of Examiners, to consider examination results and assessments pertaining to the courses;
- (f) to advise the academic staff on the assessment of practical work;
- (g) to inspect, if they so wish, student course and laboratory work and marks awarded for such work;

(h) to present such reports on the courses and examinations as they may deem necessary or as the Academic Council may require and to present a terminal report.

Academic Council 23/1/1980

For nearly twenty years it has been College policy to appoint two External Examiners for the Final Examination in Photography, one from Ireland and one from Continental Europe.

The photograph shows, from left to right: Mr. Stephen Coonan, Lecturer in Photography, DIT Kevin Street, Mr. Finbarr O'Connell AIPPA, Cork and Professor Heinz Wedewardt, Fachhochschule, Köln, External Examiners for the Final Year of the Technician Diploma in Photography and Mr. David H. Davison, Head of Photography Section, DIT Kevin Street.



SCRÚDAITHEÓIRÍ SEACHTARACHA DO SCRÚDAITHE 1991

Diploma in Applied Sciences
BSc (Applied Sciences)
Year II and Year IV
(Ref: WSAD II and WSAD IV)

Professor Elio Giamello DSc, Università Di Torino, Italy.

John Guthrie BTech PhD CChem FRSC, Dublin.

Professor S. McKee BSc MA PhD DSc FIMA, University of Strathclyde, Scotland.

Professor W. Hayes MSc PhD MA DPhil DSc(hc NUI),
President, St. John's College,
Oxford, England.

Gordon G. Birch BSc PhD DSc, Department of Food Science and Technology, University of Reading, England.

R.G. Board BSc PhD DSc FISST CBiol FIBiol, School of Biological Sciences, University of Bath, England.

Jean Guichard Professeur Certifié de Lettres Modernes Maitrise CAPES de Lettres Modernes, Attache Linguistique, Ambassade de France, Dublin

M.R. Jones MA University of Ulster, Coleraine. Diploma in Human Nutrition and Dietetics BSc (Human Nutrition) Year III and Year IV (Ref: WBD III and WBD IV)

Professor Claus Leitzmann, Institut für Ernahrungswissenschaft, Giessen, Germany.

Pamela J. Brereton SRD MBE, Northwick Park Hospital and Clinical Research Centre, Middlesex, England.

Professor M. Hubert McDermott BA MA DPhil HDipEd, Galway.

Diploma in Human Nutrition and Dietetics BSc (Human Nutrition) Year II (Ref: WBD II)

Professor M.G. Harrington MSc PhD FICI CBiol FIBiol FIFSTI, Dublin.

Dom Colbert MB BCh BAO BSc FRSCI, Galway.

Diploma in Human Nutrition and Dietetics BSc (Human Nutrition) Year I (Ref: WBD I)

Professor P.G. McKenna BSc PhD CBiol FIBiol FIMLS, University of Ulster, Coleraine. Professor Kevin B. Nolan BSc PhD CChem FICI FRSC, Dublin.

J.A. Scott BSc MSc PhD CPhys FInstP, Dublin.

Diploma in Ophthalmic Optics Year II and Year IV (Ref: WSO II and WSO IV)

T.C.A. Jenkins MScTech PhD FBCO DCLP, University of Bradford, England.

Gary A. McGuire FAOI, Dublin.

Diploma in Applied Physics. Year I and Year II (Ref: PSAP I and PSAP II)

Maurice G. Ebison BD MA CPhys FInstP, Deputy Executive Secretary and Head of Education, Institute of Physics, London, England.

Professor D.L. Weaire BSc PhD DSc MRIA CPhys FInstP, Dublin.

Professor P.K. Carroll, BSc MSc PhD DSc MRIA CPhys FinstP Dublin.

Diploma in Food Science and Technology

Year II (Final Year) (Ref: S.6.2)

Donald Mottram BSc PhD, Department of Food Science and Technology, University of Reading, England.

Mary Upton BSc MSc PhD FIFSTI, Dublin.

Diploma in Mathematics.

Year I and Year II (Ref: M.7.1 and M.7.2)

Professor D.J.G. James BSc PhD FIMA, Department of Mathematics, Lanchester Polytechnic, England.

Professor Dr. R. Göbel, Fachbereich 6, Mathematik, Universität Essen GHS, Essen, Germany.

Certificate in Mathematics

Year III (Final Year) (Ref: M.4.3)

Professor D.J.G. James BSc PhD FIMA, Department of Mathematics, Lanchester Polytechnic, England.

Professor Dr. R. Göbel, Fachbereich 6, Mathematik, Universität Essen GHS, Essen, Germany.

Graduate Examination of the Institute of Biology Part II

(Ref: PSIB 3)

Professor K. Wilson BSc PhD FRSC CBiol FIBiol, Hartfield Polytechnic, England.

Graduate Examination of the Institute of Biology Part I

(Ref: PSIB 1)

Professor K. Wilson BSc PhD FRSC CBiol FIBiol, Hartfield Polytechnic, England.

Ann Rumpus BSc PhD, Polytechnic of Central London, England.

Diploma in Biomedical Sciences Year I (Ref: WBS 1)

Professor S.J. Martin BSc MSc PhD, Queen's University, Belfast.

Professor P.G. McKenna BSc PhD CBiol MIBiol FIMLS, University of Ulster, Coleraine.

Diploma in Medical Laboratory Sciences

Year II (Final Year) (Ref: WAML II)

Professor Ian J. Temperley MA MD FRCPI FRCPath, Dublin.

Donald Mullahy FIMLS, Dublin.

Eamonn Fitzpatrick FIMLS, Dublin.

Liam English FIMLS FAMLS, Dublin.

Desmond Kenny BSc MSc MRCPath, Dublin.

Professor P.G. McKenna BSc PhD CBiol FIBiol FIMLS, University of Ulster, Coleraine.

Professor S.J. Martin BSc MSc PhD, Queen's University, Belfast.

Professor Kevin B. Nolan BSc MSc PhD CChem FRSC, Dublin.

Institute of Medical Laboratory Sciences Assessors

Roger Hall FIMLS, St. James's University Hospital, Leeds, England.

Robert Francis FIMLS, Institute of Pathology, The London Hospital, London, England.

J.D. Jarvis FIMLS, The London Hospital, Whitechapel, London, England. Dennis Kilshaw CBiol MIBiol FIMLS, Arrowe Park Hospital. Mersevside, England.

Certificate in Medical Laboratory Sciences

Year III (Final Year) (Ref: WML III)

Denis Reen BSc MSc PhD, Dublin.

National Examiner

Thomas Moloney BA FIMLS NDipIRS, Dublin.

Certificate in Medical Laboratory Sciences

Year II (Ref: WML II)

Denis Reen BSc MSc PhD, Dublin.

Professor M.G. Harrington BSc PhD FICI CBiol MIBiol FIFSTI, Dublin.

Dom Colbert MB BCh BAO BSc FRSCI, Galway.

Professor James F. Malone BSc PhD FIPSM CPhys FInstP CBiol MIBiol, Dublin.

F. Scharf BA MIL. University of Ulster, Coleraine.

National Examiner

Gerard O'Connor FIMLS. Dublin.

Technician Diploma in Applied Science (Applied Biology Option) Year III (Final Third Year)

(Ref: WAS III (B))

P. Vivion Tarrant BSc PhD FICI, Dublin.

Barry McSweeney BSc MSc, Dublin.

Professor Francis M. Gannon BSc PhD, Galway.

Liam Ferguson FAMLS. Dublin.

Technician Certificate in Applied Science (Part-Time) (Applied Biology Option) Year III and Year IV

(Ref: PAS III (B) and PAS IV (B))

P. Vivion Tarrant BSc PhD FICI. Dublin.

Barry McSweeney BSc MSc. Dublin.

Professor Francis M. Gannon BSc PhD. Galway.

(Applied Chemistry Option) Year III and Year IV (Ref: PAS III (C) and PAS IV (C))

Laurence M. Peter BSc PhD. University of Southampton, England.

Donal M. Carroll BSc MSc DIC FICI, Dublin.

Technician Diploma in Applied Science (Applied Chemistry Option) Year III (Final Year)

Professor Laurence M. Peter BSc PhD, University of Southampton,

(Ref: WAS III (C))

England.

Donal M. Carroll BSc MSc DIC FICI, Dublin.

Technician Diploma in Applied Science (Applied Physics Option) Year III (Final Year)

(Ref: WAS III (P))

Professor Yvan Sirben, Université de Bordeaux 1, France

John Tully DipAppSc BSc(AppSc), Dublin.

Diploma in Computer Science Year III (Final Year) (Ref: WMT III)

M.J. Chapman BSc(Eng) MSc FBCS, Staffordshire Polytechnic, England.

Michael Walsh BSc MSc, Dublin.

Diploma in Bakery Production and Management

Year III (Final Year) (Ref: WBT III)

M.S. Whieldon BA FIBB, Southbank Polytechnic, London, England.

Technician Diploma in Photography

Year III (Final Year) (Ref: WASPH 3)

Professor Heinz Wedewardt, Fachhochschule, Köln, Germany.

Rex Roberts BSc ABIPP, Dublin.

Certificate in Professional Photography

Year III (Final Year) (Ref: PSP III)

Professor Heinz Wedewardt, Fachhochschule, Köln, Germany. Rex Roberts BSc ABIPP, Dublin.

Technician Certificate in Medical Physics and Physiological Measurement

Year III (Final Year) (Ref: PBE III)

Thomas A. Whittingham PhD CPhys FInstP FIPSM, Newcastle General Hospital, England.

Certificate in Sciences for Nurses Year III (Final Year)

(Ref: PSN III)

Roswyn A. Brown BA MPhil SRN SCM DN(London) CertEd(B'ham) RNT, Faculty of Health and Social Sciences, City of Birmingham Polytechnic, England.

Graham Manson MSc CEng MIEE, Cork.

Honours Diploma in Electrical/ Electronic Engineering.

Year IV (Final Year) (Ref: SEE IV)

Professor H. Nicholson Deng MA FIEE, University of Sheffield, England.

Professor J. Calderwood BEng MEng DSc(NUI) DSc(hcSalford) CEng FIEI FIEE EurEng CPhys FInstP, University College Galway. Professor R.H. Mitchell BSc PhD CEng FIEE FIERE MIEEE, University of Ulster, Jordanstown.

Jean Guichard Professeur Certifié de Lettres Modernes CAPES de Lettres Modernes, Attache Linguistique, Ambassade de France, Dublin.

M.R. Jones MA, University of Ulster, Coleraine.

Technician Engineering Diploma (Electrical Engineering)

Year III (Final Year) (Ref: WEET III)

G. Cross BSc PhD CEng MIEE, University of Ulster, Jordanstown.

Malachy Hanley BE(Elec) MIEI, Slane, Co. Meath.

Technician Engineering (Electronics and Telecommunications)

Year III (Final Year) (Ref: WRTT III)

George Watters BE MBA CEng FIEI FIEE FIMA FSMPTE,
Director, European Broadcasting Union,
Geneva, Switzerland.

Andrew J. Hartley BSc MSc PhD CEng MIEE, Bolton Institute of Higher Education, Bolton, England.

Technician Diploma in Electronic Engineering

Year III (Final Year) (Ref: WRS III)

George Watters BE MBA CEng FIEI FIEE FIMA FSMPTE,
Director, European Broadcasting Union,
Geneva, Switzerland.

Gabriel Crean BSc PhD, The National Microelectronics Centre, Cork. Eve Mitchell LesL MPhil DipRSA, Napier Polytechnic, Scotland.

P. Jordan, Dublin.

Certificate in Electronics

Year II (Final Year) (Ref: WRCE II)

Gabriel Crean BSc PhD, The National Microelectronics Centre, Cork.

Andrew J. Hartley BSc MSc PhD CEng MIEE, Bolton Institute of Higher Education, Bolton, England.

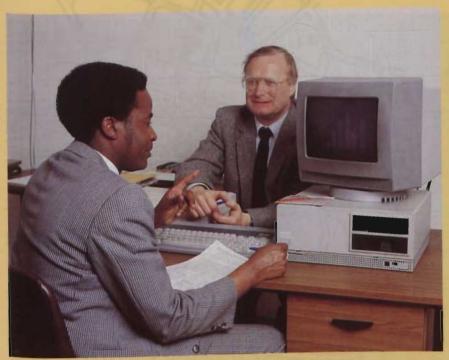
Certificate in European Languages for Business

Year II (Final Year) (Ref: WLBS 2)

M.I. Foley Lic Filosofia Y Letras Doctor en Filosofia Y Letras, Dublin.

Dietmar Röster Doktor(Universität Berlin), King's College, London, England. Photograph shows some of the 650 Leaving Certificate students who attended the Careers Evening on Applied Sciences in the Gleeson Hall, DIT Kevin Street on Monday, 8th October, 1990.





The Dublin Institute of Technology has had informal contacts with the Mathematics Department at the University of Dar Es Salaam, Tanzania from some years now. Recently this has taken on a more concrete form with the organisation by HEDCO of a project under the Bilateral Aid Programme. This project will see Irish staff undertaking one-term teaching assignments in Dar and will bring a number of junior members of staff in Dar to Ireland to study for higher degrees.

Our photograph shows the first participant on this scheme, Mr. Estomih Massawe, with Dr. Michael Tuite, Department of Mathematics, Statistics and Computer Science. Mr. Massawe is a member of staff in the Mathematics Department in Dar and has spent the last two years studying for a Masters Degree by research in Hamiltonian Control Systems under Dr. Tuite's supervision.

SECTION F

Dublin Institute of Technology; the location of its Colleges and Administrative Offices

Guide to Courses in the Dublin Institute of Technology

Dublin Institute of Technology Course/Career Advisory Programme

Dublin Institute of Technology Course/Career Advisory Evenings 1991



RANELAGH

DUBLIN CITY IS OUR CAMPUS

'SÉ CATHAIR ÁTHA CLIATH CAMPAS NA hINSTITIÚIDE

idea of the range of c topics mentioned are subjects. Course dura	re are not exhaustive but give some ourses available in DIT. Some of the studied in conjunction with other tion and final qualifications vary. on contact the relevant college.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
Natural and	Analytical and Applied Science						
Applied Science	Applied Mathematics						
Eargna Aicionta	Applied Physics						
agus Fheidhmeach	Aquatic Biology						
	Biochemistry						
	Biology						
	Biotechnology						
	Botany						
	Chemical Technology						
	Chemistry						
	Computer Science/Programming					•	
	Environmental Science						
	Fine Chemical and Pharmaceuticals						
	Food Technology		•				
	Food Science						
	Forensic Science						
	Genetics						1
	Mathematics						
	Mathematical Physics						
	Nautical Studies						
	Microbiology			•			
	Oceanography						
	Pharmacology						
	Physics			•			

opics mentioned are studied in conjunction with other abjects. Course duration and final qualifications vary. For further information contact the relevant college.			Catering	Kevin Street	Market. & Design	Commerce	Misic
	Physiology			•			
	Polymer Science						
	Science of Materials						
	Statistics			•			
	Systems Analysis						
	Zoology						
Medical and Health Related Science Gar-leigheas agus Sláinte	Animal Nursing						
	Dentistry/Dental Technology						
	Dietetics						
	Environmental Health						
	Health Science						
	Human Nutrition						
	Medicine						
	Medical Laboratory Sciences						
	Medical Physics						
	Ophthalmic Optics						
	Sciences for Nurses			•		•	
Social Sciences	Community Care		•				
Eargna Soisialach	Child Care		•				
	Social Science/Sociology					0	

idea of the range of topics mentioned as subjects. Course du	here are not exhaustive but give some f courses available in DIT. Some of the re studied in conjunction with other tration and final qualifications vary. ation contact the relevant college.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
Arts / Ealaíona	Communication Studies			•		•	
	Drama Studies						
	Economics						
	English/use of English					•	
	Ethics						
	European Studies			•			
	French						•
	Geography						
	German			•			•
	Irish			•		•	
	Irish Studies						
	Italian			•			•
	Journalism						
	Linguistics/Applied Linguistics			•			
	Music						•
	Philosophy						
	Political Science					•	
	Psychology						
	Regional Studies						
	Russian			•			
	Social Studies					•	
	Spanish			•			
	Tourism		•				
	Translation			•			

	tion and final qualifications vary. on contact the relevant college.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
Fine and Applied	Advertising Graphics						
Arts	Aesthetics						
Na hEalaíonna	Anthropometrics						
Fheidhmeacha	Antique Furniture Restoration/						
	Furniture Technology						
	Art Education						
	Computer Aided Design						
	Craft/Ceramic Design						
	Display Design				•		
	Drawing						
	Environmental/Spatial Design						
	Ergonomics				•		
	Exhibition Design						
	Fine Arts						
	Furniture Product Design						
	Graphic Design						
	Graphic and Reproduction						
	Technology					Ш	
	History and Theory of Art						L
	and Design						
	Illustration						
	Industrial/Product Design		•	•	•		
	Interior Design						
	Model Making	120					

idea of the range of topics mentioned ar subjects. Course du	courses available in DIT. Some of the studied in conjunction with other ration and final qualifications vary.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
	Painting Philosophy						
	Philosophy						
	Photography Printmaking						
	Product Design						
	Psychology						
	Retail Display			-			
	Sculpture				•		
	Sociology						
	Technical Illustration			- 1			
	Television Graphics/Animation					-	
	Textile Printing						
	Theatre Design				•		
	Visual Communication Design				•		
	Visual Media Studies				•		
Commercial and	Accountancy			•	•	•	
Business	Administrative Systems/						
Administration	Secretarial Studies					•	
Tráchtail agus	Advertising					•	
Ciarachán	Agri-Business						
	Auctioneering	•					
	Bakery Production/Management			•			
	Business Administration		•	•	•	•	

idea of the range of topics mentioned are subjects. Course dur	ere are not exhaustive but give some courses available in DIT. Some of the studied in conjunction with other ration and final qualifications vary.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
	Business Studies/Commerce			•			
	Company Secretaryship						
	Construction Economics	•					
	Distribution Management						
	Environmental Economics	•					
	Environmental Management		•				
	Hotel and Catering Management						
	Management Finance			•			
	Marketing			•			
	Medical Records			•			
	Public Administration				•		
	Public Relations						
	Work Study					•	
Law / Dli	Legal Studies					•	
Engineering and	Agricultural Engineering						
Architecture	Architecture						
Innealtóireacht	Building Management						
agus Áiltíreacht	Chemical Engineering						
	Civil Engineering						
	Computer Engineering			•			
	Construction Studies						
	Electrical Engineering						

dea of the range opics mentioned ubjects. Course	ed here are not exhaustive but give some e of courses available in DIT. Some of the d are studied in conjunction with other duration and final qualifications vary.	Bolton Street	Catering	Kevin Street	Market. & Design	Commerce	Music
	Electronic Engineering			•			
	Engineering Draughtsmanship					Lb	
	Engineering Science			•			
	Building Services Engineering						
	Geo-Surveying						
	Industrial Engineering					•	
	Instrumentation and Control						
	Engineering						
	Marine Engineering						
	Manufacturing Technology						
	Materials and Production Engineering						
	Mechanical Engineering						
	Mechanical and Production						
	Engineering						
	Mining Geology/Mineral Engineering				0		
	Motor Industry Management						
	Plastics Engineering						
	Printing			1			
	Production Engineering						
	Telecommunications Engineering			•			
	Site Management	•					
	Structural Engineering	•					
	Surveying						

CLÁR EOLAIS CHURSAÍ/GHAIRMEACHA INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

The six Colleges of the Dublin Institute of Technology offer a large number of courses covering a wide range of disciplines and areas of study. The Institute's courses are of their nature vocational and in entering one of them you may be choosing the direction of your career in life as well as in your studies. If, therefore, you are considering entering a course in the Dublin Institute of Technology it is important to make a careful choice of course among those which you think are best suited to your personality and talents.

There are a number of sources of information which will help give you an insight into different careers and the related third-level courses.

The Institute, for its part, provides information on its courses by means of College Prospecti, Booklets, Admissions Handbook and Course Leaflets.

A particular feature of the Institute's activities in the area of information provision is the Annual Series of Course/Career Advisory Evenings. This series consists of a programme of 22 Talks which take place on weekday evenings during October and November.

Each evening deals with a group of DIT courses and consists of a formal presentation by a senior member of the Institute's academic staff which is followed by a Question/Answer Session during which a DIT Panel discuss the questions put by the participants. The DIT Panel consists of DIT Lecturers, graduates of the DIT courses being discussed and representatives of Business and Industry. The participating audience consists mainly of Leaving Certificate students, parents and Guidance Counsellors.

The objective of the Course/Career Advisory Evenings is to afford prospective students the opportunity to discuss their career aspirations with experts in particular areas of study. Tickets for the Advisory Evenings are available from early September at:

The Information Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

DIT also provides an annual full day of general advice in relation to careers and academic courses for students from outside the Dublin area.

Consideration will also be given to DIT Personnel attending Careers Exhibitions and Conferences organised by the Second Level Schools.

TRÁTHNÓNAÍ COMHAIRLE GHAIRM/CHURSAÍ INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH 1991

Series Timetable / Srathchlár

Teicneolaíochta, Sráid Caoimhín

Courses/Careers Cúrsaí/Gairmeacha	Date Dáta	Venue/College Láthair/Coláiste
T01 Applied Sciences	Monday 7th October, 1991	Gleeson Hall, Kevin Street.
T02 Health Sciences	Tuesday 8th October, 1991	Gleeson Hall, Kevin Street.
T03 Communications	Wednesday 9th October, 1991	Gleeson Hall, Kevin Street.
T04 Computer Studies	Thursday 10th October, 1991	Gleeson Hall, Kevin Street.
T05 Architecture/Architecture Technician	Monday 14th October, 1991	Bolton Street.
T06 Property Economics	Tuesday 15th October, 1991	Cathal Brugha Street.
T07 Engineering (Mechanical, Structural, Production, Building Services)	Wednesday 16th October, 1991	Bolton Street.
T08 Social Services	Thursday 17th October, 1991	Bolton Street.
T09 Food Science and Environmental Health	Monday 21st October, 1991	Bolton Street.
T10 Catering & Bakery	Tuesday 22nd October, 1991	Cathal Brugha Street.
T11 Music	Wednesday 23rd October, 1991	Chatham Row.
T12 Printing	Wednesday 23rd October, 1991	Bolton Street.
T13 Geo-Surveying	Thursday 24th October, 1991	Bolton Street.
T14 Construction	Tuesday 5th November, 1991	Bolton Street.
T15 Art & Design	Wednesday 6th November, 1991	Bolton Street.
T16 Business Studies 3	Thursday 7th November, 1991	Bolton Street.
T17 Marketing	Tuesday 12th November, 1991	Gleeson Hall, Kevin Street.
T18 Hotel Management	Wednesday 13th November, 1991	Gleeson Hall, Kevin Street.
T19 European Languages	Thursday 14th November, 1991	Gleeson Hall, Kevin Street.
T20 Electrical/Electronic Engineering	Thursday 14th November, 1991	Gleeson Hall, Kevin Street.
T21 Business Studies 2	Monday 18th November, 1991	Gleeson Hall, Kevin Street.
T22 Oíche Ghairmeach tré Ghaeilge i dtaobh Chursaí an Choláiste	Mairt 19ú Samhain, 1991	Halla Ó Glaisín, Sráid Caoimhín

The programme will commence each evening at 19.30 hrs and finish at 21.30 hrs.

The events in bold type relate to presentations by the Departments of the Dublin Institute of Technology, Kevin Street.

Course/Career Advisory Day for those outside Dublin

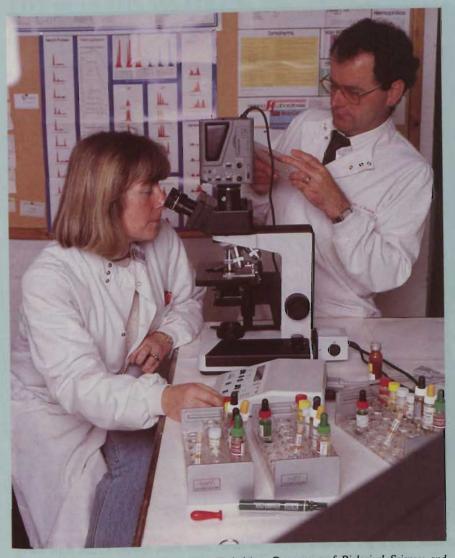
Lá Comhairle Ghairm/Chursaí doibh siúd ó na Cúigí

On Saturday 11th January, 1992 the Dublin Institute of Technology will organise a comprehensive Course/Career Advisory Day for Guidance Counsellors, Parents and Pupils living outside the Dublin area. The event will take place in the Dublin Institute of Technology at Bolton Street and all aspects of the academic work of the six Colleges within the DIT will be covered.



Photograph taken after the Careers Evening on Applied Sciences which was attended by 500 school-leavers on 8th October, 1990.

Left to right: Mr. Dermot Campbell, Assistant Head, Department of Languages and Industrial Studies, Mr. Liam Lawlor, Assistant Head, Department of Biological Sciences, Dr. Tom Ambrose, Assistant Head, Department of Mathematics, Statistics and Computer Science, Dr. Des Hickey, Course Director for the First Year of the Applied Sciences Degree Programme, and Mr. Donal Carroll, Eolas, a former President of the Institute of Chemistry of Ireland.



Photograph shows Ms. Stephanie Mulgrew, Technician, Department of Biological Sciences and Mr. Colm O'Rourke, Lecturer in Transfusion Science, engaged in a comparative study of liquid and solid phase techniques for use in blood serology.

SECTION G

City of Dublin Vocational Education Committee

The Dublin Institute of Technology

Academic Council — Dublin Institute of Technology

College Council

College Executive Board

The College and its Departments

Diploma in Applied Sciences



Back Row, left to right: Cormac McNamee, David Tilson, Gary Rogers, Raymond Keegan, Ian Turner, Susan Ryan, Anthony McGee, Barry Hurley, Lynda Doody, Pauline Marron.

Centre Row, left to right: Ann-Marie Munnelly, Shane Conway, Sara Matthews, Sean Porter, Michael O'Donohue, Robert Perrem, Laura Glennane, Niall O'Meara, Michael Gunning, Michaela Mullen, Noel Gilligan.

Front Row, left to right: Judith Browne, Philip Daly, Elaine Harris, Dr. Tom Cantwell, Dr. Henry Hopkins, Christina Kelly, Fintan Shanley, Brenda Larkin, Dr. Brendan Goldsmith.

COISTE GHAIRM-OIDEACHAIS CHATHAIR BHAILE ÁTHA CLIATH

The College operates under the City of Dublin Vocational Education Committee. The CDVEC is assisted by a number of committees, including a Governing Body for the Dublin Institute of Technology, College Councils for each of its six Colleges, a joint Academic Council, an Apprentice Education Board and a Buildings Committee.

Members / Baill:

Councillor Patrick Carey NT BA HDipEd, (Chairman), 69 Bourne View, Ashbourne, Co. Meath.

Councillor Michael Donnelly BComm FCA, (Vice-Chairman), 33 Glendoher Avenue, Rathfarnham, Dublin 16.

Councillor Andrew Callaghan BA HDipEd DipAILitt,

The Abbey Theatre, Lower Abbey Street, Dublin 1.

Michael Cotter NT BA MEd, 51 Sefton, Rochestown Avenue, Dun Laoghaire, Co. Dublin.

Patrick Donegan, 121 Shanard Road, Dublin 9.

Barry Early MA BComm DPA FCCA PC, 161 Sutton Park, Dublin 13.

Councillor Liam Fitzgerald NT BA HDipEd TD, 117 Tonlegee Road, Raheny, Dublin 5.

Councillor Mary Hanafin BA HDipEd, 9 Brookville Avenue, Blackrock, Co. Dublin.

Seán Lyons Final(EEP)CGLI IEng MIEIE, 30 Coolmine Woods, Clonsilla, Blanchardstown, Dublin 15.

Alderman Tomás MacGiolla TD, 49 St. Laurence's Road, Chapelizod, Dublin 20.

Councillor Charles McManus BA HDipEd, 14 Glenaulin Park, Chapelizod, Dublin 20.

Councillor Michael O'Halloran PC, 141 Ardlea Road, Dublin 5.

Séamus Puirséil NT MA HDipEd, 16 Hampton Cove, Baile Brigín, Co. Átha Cliath.

Paul O'Halloran, Students' Union, DIT College of Marketing & Design, Mountjoy Square, Dublin 1.

Offices / Oifigí:

W. J. Arundel BComm HDipEd, Chief Executive Officer, City of Dublin VEC, Town Hall, Ballsbridge, Dublin 4.

INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

In 1978 the Dublin Institute of Technology was established by the City of Dublin Vocational Education Committee by placing its six Colleges under a single Governing Body. The Colleges of Technology in Bolton Street and Kevin Street are the largest of the Colleges, the other constituent Colleges being the College of Commerce, the College of Catering, the College of Music and the College of

Marketing and Design. Its work and awards have attained national and international recognition by academic, professional and industrial Institutions.

Over 1,500 teaching staff are concerned with teaching 24,000 students attending wholetime and part-time third-level and apprentice courses. The Institute is also involved in research and development, and there is a growing

demand for advisory and consultative services from institutions in developing countries, as well as in Ireland. The Colleges of the Institute have played a leading role in the evolution of technical and technological education in Ireland and continue to be involved with the latest developments in technology and commerce, maintaining their commitment to industrial, economic and cultural development.

GOVERNING BODY

BORD STIÚRTHA

Michael Cotter NT BA MEd (Chairman)
Councillor Patrick Carey NT BA HDipEd
Councillor Liam Fitzgerald NT BA HDipEd TD
Councillor Mary Hanafin BA HDipEd
Councillor Michael O'Halloran PC
Séamus Puirséil NT MA HDipEd
Michael O'Donnell MEconSc BE BComm CEng MIProdE FIEI
Tom Fitzpatrick
Gerry Shanahan
Wolfgang Truetzschler DipPsych
Chris Wall
Student Representative

COMHAIRLE ACADÚIL - INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

The Academic Council was established in November 1970 by the CDVEC and given responsibility for the following functions:

- (a) The fostering and maintenance of connections with industry, commerce and professions, universities, other educational establishments and research organisations, including recommending to the Vocational Education Committee the establishment of such Committees for this purpose as it deems necessary.
- (b) The establishment of permanent or ad hoc boards of studies or other committees, the membership and terms of reference of such boards of studies or committees being specified by the Academic Council, the membership not necessarily being restricted to the membership of that Council, or to the staff of the colleges, and where appropriate, may include student members.
- (c) The appointment of external examiners under such schemes as may be recommended to and approved by the Vocational Education Committee.
- (d) The making to the Vocational Education Committee of such

reports and recommendations as the Academic Council may think fit on any academic and related matters or on any matter referred to the Academic Council by the Vocational Education Committee.

Members / Baill:

The Chief Executive Officer, the Principals, Vice-Principals and Heads of Departments of the Colleges. Other members of the Academic staffs chosen to ensure adequate coverage of the work of the Colleges whose number and method of appointment shall be determined by the Vocational Education Committee after taking into account the recommendations made to them by the Academic Council.

- K. Sullivan DipEng MSc MIEI (Chairman) B. Goldsmith BSc MSc DPhil (Vice-Chairman) Vivienne Abbott MA HDipEd MIL
- W. J. Arundel BComm HDipEd
- F.M. Brennan DipEE CEng FIEI FIEE Angel Bruton BArch MRIAI RIBA MSDI ACIAHO
- R. Burns BSc MSc
- J.T. Byrne BComm MEconSc
- J.T. Cotter BSc MSc
- J. Creagh MA ANCA ATC MSDI
- T. Dalgic BA MBA PhD
- E. de Búrca FRICS FCIOB
- J. J. Doherty BA

Eilish Farrell BMus MMus

- J.C. Fisher BA BAI HDipEd PhD CEng MIEI
- G. Fitzpatrick BA BComm FCA
- P.R. Flood BComm MPA FMII MIITM
- W. Gardiner (Student Representative)
- C.L. Grant MA MEd MLitt BComm HDipEd MInstM
- Móna Hearn MEd BSocSc DipDomSc HDipEd PhD
- J. Hegarty MEd DipHtlMgt MIHCI
- F. Heneghan BE BMus CEng MIMechE FTCL LRIAM
- P. J. Henry BComm MBA
- J.S. Hickey MSc BA
- R. Holmes MMus BMus ARCM
- M. Hussey BE MS PhD CPhys FInstP CEng FIEE
- E. Kelly BA(Mod) MSc(Mangt Sc)
- F. Lane BA DipAppPsych
- R. Lawlor BA MBA MIHCI
- D. McGuinne BFA PhD MSDI
- F. McMahon BComm MBA MIHCE
- O. McNulty CEng FIEI ARTCS MIStructE
- T. Madden BComm FIMA FIIF MMII MIITM
- M. Murphy DipEng MSc CEng MIMechE
- C. Nutty BA MPA FMS
- A.P. O'Connor BComm DPA MIPM MIITD
- B. J. O'Connor CEng MIEE
- M. O'Donnell MEconSc BE BComm CEng FIEI
- J. J. O'Keeffe BArch FRIAI
- P. J. O'Neill BComm

Marlene Proctor MSc PhD MIFSTI MIHCI

- E. J. Rothery BSc CChem FRIC FICI MIBiolI
- Brid Ann Ryan BSc MSc CBiol MIBiol DipIndMicrob

J.F Ryan MA BComm DPA
J.K. Taaffe BSc MSc CPhys MInstP MBA
HDipEd DipProd Barrister-at-Law
Kathleen M. Tierney MA
G. Walker BA HDipEd MRP MIPI

J. Bernie TEng(CEI) MInstGTechE (Apprentice Education Board Observer)

J. Morrisey BA HDipEd (Board of Studies Observer)

Academic Registrar: T. Duff BSc CEng MIProdE

Education Officer: E.P. Tuffy BSc MEd CGLI(FETC)



On 6th March 1991 an International Seminar on Photography was sponsored by the Irish Professional Photographers Association and the Northern Ireland Professional Photographers Association in the Glesson Hall.

The photograph shows International Photographer of the Year for the fourth year in succession, Mr. Stephen Rudd of Toronto, Canada giving a demonstration of portrait lighting techniques.

COLLEGE COUNCIL

COMHAIRLE AN CHOLÁISTE

Councillor Liam Fitzgerald NT BA HDipEd TD (Chairman)

Councillor Michael Donnelly BComm FCA (Vice-Chairman)

Michael Cotter NT BA MEd

Patrick Donegan

Francis Brennan DipEE CEng FIEI FIEE (Principal)

Seán Hanratty FIMLS (Representative of Industry)

Patrick Laffan (Representative of DCTU)

Patrick McCarthy BSc PhD MBA CChem MRSC FICI (Representative of Industry)

Kenneth A. O'Reilly BE MIE CEng MIEI MIMechE (Representative of Industry)

Byron Williams (Student Representative)

Brendan T. Woods BSc PhD (Staff Representative)

Industry Liaison & Staff Development Sub-Committee of College Council

Fó-choiste Forbartha na Comhairle

The objectives of this sub-committee are to encourage, foster and promote closer links with industry, semi-state concerns, state institutions and the various Divisions of the Commission of the European Communities.

Kenneth A. O'Reilly BE MIE CEng MIEI MIMechE (Chairman)

Councillor Liam Fitzgerald NT BA HDipED TD

Michael Cotter NT BA MEd

Patrick Donegan

Seán Hanratty FIMLS

Peter F. Kavanagh BSc PhD

Patrick McCarthy BSc PhD MBA CChem MRSC FICI

J. Kieran Taaffe BSc MSc CPhys MInstP MBA HDipEd DipProd Barrister-at-Law

Janette McFall (Recording Secretary)

BORD FEIDHMIÚCHÁIN AN CHOLÁISTE

The College Executive Board helps in co-ordinating the work of the College and its academic programmes. It comprises the Principal, Vice-Principals, Heads of Departments and the Secretary/Registrar. It has responsibility for approving and monitoring of courses leading to DIT and College awards, including examinations and student admission requirements. It also has an important role in promoting research and developing College academic policy.

PRINCIPAL / PRÍOMH OIDE:

F.M. Brennan DipEE CEng FIEI FIEE

VICE-PRINCIPALS / LEAS PRÍOMH-OIDÍ:

J.K. Taaffe BSc MSc CPhys MInstP MBA HDipEd DipProd Barrister-at-Law Position Vacant

DEPARTMENT HEADS / CEANNASAITHE NA ROINN:

Biological Sciences / Bitheolaíochtaí:

Brid Ann Ryan BSc MSc CBiol MIBiol DipIndMicrob

Chemistry / Ceimic:

E.J. Rothery BSc CChem FRSC FICI MIBiolI

Control Systems & Electrical Engineering / Innealtóireacht Leictreach agus Riartha:

J.C. Fisher BA BAI HDipEd PhD CEng MIEI

Electrical Installation / Instealbhú Leictreach:

John T. O'Donnell BA HDipEd IEng MIEIE MIITD

Electronic and Communications Engineering / Innealtóireacht Leictreonach agus Cumarsáide:

Position Vacant

Languages and Industrial Studies / Teangeolaíocht agus Staidéar Gnó:

Kathleen M. Tierney MA

Mathematics, Statistics and Computer Science / Matamaitic, Statistic agus Ríomhaireacht:

B. Goldsmith BSc MSc DPhil

Physics / Fisic:

M. Hussey BE MS PhD CPhys FInstP CEng FIEE

SECRETARY/REGISTRAR: RUNAÍ/CLÁRAITHEOIR:

D. Gallanagh



F.M. Brennan



J.K. Taaffe



B.A. Ryan



E.J. Rothery

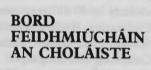
COLLEGE EXECUTIVE BOARD



J.C. Fisher



K.M. Tierney





J.T. O'Donnell



B. Goldsmith



M. Hussey



D. Gallanagh

AN COLÁISTE AGUS NA REANNA

Applied Sciences and Engineering have been very strongly represented in the curriculum since the first College was opened in Kevin Street in 1887. From a beginning one hundred years ago with 10 academic staff teaching 78 students in 12 different subjects, the College has developed and evolved over the intervening century to the present position where 200 full-time and 300 part-time academic staff teach 4,500 students on 80 different courses in Engineering, Applied Science, Health Science, Food Science, Mathematics, Computing and Languages.

Science / Eolaíocht

The four Departments of Biological Sciences, Chemistry, Mathematics, Statistics and Computer Science and Physics provide 45 of the 80 courses offered in the College. The spectrum of tuition covers a broad range of full-time technician diploma and wholetime degree/professional programmes in the disciplines associated with the four departments mentioned above, in addition to providing closely associated opportunities for part-time and evening students. The science departments strongly subscribe to the academic ethos of the DIT in which students

who have displayed ability in the first courses of their choosing and who possess the appropriate motivation are facilitated to progress to higher level courses within their fields of study. Students who obtain good results in Certificate and Diploma courses in the Regional Technical Colleges have also successfully transferred to higher level technician and degree/professional programmes in the Science and Mathematics Departments.

Engineering / Innealtóireacht

The Department of Control Systems and Electrical Engineering and the Department of Electronic and Communications Engineering provide a range of courses which cater for some forty percent of the students currently enrolled in the College. These courses include technician, technician engineer and degree/professional level programmes as well as a number of part-time courses, many of which are designed to meet the needs of personnel in industry. Since 1975, The University of Dublin has awarded the degree of BSc(Eng) to successful graduates of the four-year wholetime Honours Diploma Course in Electrical Engineering. A major revision of this course was undertaken

in 1982 to accommodate the many changes which have taken place in electrical/electronic engineering. This resulted in the introduction of three specialist options in the areas of Electonic, Communications and Computer Engineering, Electrical Power Engineering, and Control Systems and Instrumentation Engineering. Many of the academic staff in the engineering departments are actively involved in research in these areas.

Long Association with Professional Institutes / Comhceangal fada leis na hInstitiúidí Profisiúnta

The Dublin Institute of Technology, Kevin Street is unique among Irish third-level institutions in the provision of tuition for a range of courses leading to the Graduateship Examinations of the Professional Institutes catering for scientists and mathematicians. These links with the Scientific Professional Institutes have been developed over a long period of time. These programmes have afforded an oportunity to the person working in industry to acquire an academic qualification at least the equal of an honours degree and have

also catered for those holding qualifications less than that of an honours degree or equivalent who wish by further study to obtain full professional qualifications. The Department of Biological Sciences provides courses for the examinations of the Institutes of Biology, Medical Laboratory Sciences and Food Science and Technology. The Department of Chemistry provides courses leading to the Examinations of the Royal Society of Chemistry. The Department of Mathematics provides courses leading to the Examinations of the Institute of Mathematics and its Applications, The Institute of Statisticians and the British and Irish Computer Societies. The Department of Physics has had a long association with the Institute of Physics and the Diploma in Applied Physics offered by that Department is recognised by the Institute of Physics as equivalent to an honours degree in Physics.

The engineering departments have for many decades provided courses to prepare students for the examinations of the professional institutions. The Institution of Engineers of Ireland originally accredited the degree-level course in the early seventies and for many years this course has been accepted by the Institution of Electrical

Engineers as satisfying the academic requirements for Corporate Membership.

Department of Biological Sciences / Roinn na Bitheolaíochtaí

The Department of Biological Sciences caters for those students wishing to follow careers in Applied Biology, Medical Laboratory Sciences, Human Nutrition, Food Science and Technology, Veterinary Nursing and Medical Records Administration. A three-year wholetime Technician Diploma in Applied Biology covering the study of Biochemistry, Microbiology, Biotechnology, Cell Biology, Food Science and Biomedical Science caters for those seeking a good technician qualification in Applied Biology. The College initiated courses in Medical Laboratory Sciences in Ireland and has recently been designated by the Department of Education as the national centre for degree programmes in Medical Laboratory Sciences. Furthermore, specialisation for the Special Fellowship of the Institute of Medical Laboratory Sciences is offered in Medical Bacteriology, Blood Group Serology and Transfusion, Clinical Chemistry, Haematology, Histopathology and Immunology.

Since 1946 the DIT has provided the only course for the education and training of dietitians in the country and the Department of Biological Sciences now jointly teaches and administers with the Faculty of Health Sciences in the University of Dublin an honours degree course leading to a BSc(Human Nutrition and Dietetics). The study of Food Science and Technology has been established in the College for over sixty years and courses are provided at pass and honours degree levels.

More recently, the Department established the Graduateship of the Institute of Biology course. This Honours Degree equivalent course in Biochemistry is available to those with Diplomas in Biology or Chemistry, the Special Fellowship of the Institute of Medical Laboratory Sciences, Pass Degrees and General Degrees.

Department of Chemistry / Roinn na Ceimice

In 1976 the Departments of Chemistry, Mathematics and Physics co-operated in initiating the Diploma in Applied Sciences. Graduates of this course also qualify for the award of the BSc(Applied Sciences) from the University of Dublin. All students on

this course take Chemistry, Mathematics and Physics in Year 1. Two of these subjects are taken in Year 2 and the same two subjects studied in Years 3 and 4. Students graduate with an honours degree in two major science subjects and also satisfy the academic requirements for membership of the Institute of Chemistry of Ireland, the Royal Society of Chemistry, the Institute of Mathematics and its Applications and the Institute of Physics. All students take Management Studies and a continental Language (French or German) in the first three vears of the course. This has been found by employers to be a very attractive and innovative aspect of an honours degree in science and has greatly facilitated many graduates in their careers.

The Department of Chemistry also provides part-time and wholetime courses for the Graduateship of the Royal Society of Chemistry. High level technician education is provided by a three year full-time course in Applied Chemistry. This course may also be taken on a part-time basis over six years. All chemistry courses in the College emphasise the applied aspects of chemistry, both industrial and analytical. Plastics technology is also included in industrial chemistry syllabuses.

Inservice Courses for teachers are provided by the Chemistry Department in co-operation with the Department of Education and the Institute of Chemistry of Ireland. During the session, seminars are arranged on important specialist topics involving prominent visiting lecturers from home and overseas.

Department of Mathematics, Statistics and Computer Science / Roinn na Matamaitice, Statistice agus Ríomhaireachta

The Department of Mathematics, Statistics and Computer Science in addition to its fulltime degree programmes in Mathematics and Computer Science, also provides a wholetime three year course in computing. Suitably qualified candidates from this programme are eligible for exemption from the Part I examinations of the British Computer Society. Parttime professional education is catered for by the provision of programmes leading to the Professional Examinations of the Institute of Statisticians, the Institute of Mathematics and its Applications and the British Computer Society. The Department has research interests in a number of areas of pure and applied mathematics and has had a number of

post-doctoral fellows in Mathematics since the inclusion of DIT in the Department of Education post-doctoral fellowship scheme in 1983.

Department of Physics / Roinn na Fisice

The Department of Physics provides a wholetime four year programme in physics. Areas of Applied Physics which are specialised in include Optics and Holography, Microprocessors and Instrumentation, Nuclear Instrumentation, Condensed Matter, Acoustics and Medical Physics.

The Department of Physics also provides a wholetime professional programme in Ophthalmic Optics. The Diploma in Ophthalmic Optics is a four year course which provides the education and training statutorily required for entrants to the profession by the 'Opticians Act 1956'. The course is approved by Bord na Radharcmhastóirí (Opticians' Board) which is the Registration Authority set up under the act. The majority of graduates of this course are in individual private practice as Ophthalmic Opticians.

Higher level technician education is provided for by a three year full-time course in Applied Physics. Subjects studied on this course include Applied Optics, Vacuum Technology, Materials Science, Medical Physics, Applied Photography, Electronics, Control Theory, a modern continental language and Industrial Studies.

Between 1968 and 1984 the Department of Physics prepared students for the Graduateship of the Institute of Physics Examination with considerable success. Three times within that period students of the Department obtained First Place in Britain and Ireland in the Examination. In 1984 the Department established its own Diploma in Applied Physics (DIT) to replace the Graduateship of the Institute of Physics which has been phased out by the Institute. The Institute of Physics has recognised this new course as equivalent to an honours degree in physics and it satisfies the academic requirements of those seeking corporate membership of the Institute.

The Department of Physics has developed a good reputation in Medical Physics over the years and many of the graduates of its courses have followed careers in various aspects of medical physics. The Department provides a three year part-time course for students working in the area of Medical Physics and Physiological Measurement. Since 1980 it has joined with the College of Commerce, Rathmines and with the

Nursing Schools in St. James's Hospital and the Meath Hospital in providing a course leading to a Certificate in Sciences for Nurses.

Photography was among the subjects taught when the first College opened in Kevin Street in 1887. The Department of Physics provides the only educational course in Professional Photography in the country. The course has recently been re-structured and may now be taken in modular form on a full-time or part-time basis.

Department of Control Systems and Electrical Engineering / Roinn na hInnealtóireachta Leictreach agus Riartha

The Department of Control Systems and Electrical Engineering provides a range of third-level courses from technician to professional level. These include the four-year wholetime Honours Diploma course in Electrical/Electronic Engineering, a three-year wholetime Technician Engineering Diploma course, a part-time technician programme and courses in preparation for the examinations of the Engineering Council. Since 1975 The University of Dublin has awarded the degree of BSc(Eng) to students who successfully completed

the Honours Diploma course.

Because of the great diversity of present-day Electrical Engineering, it is inevitable that undergraduate courses tend to specialise in certain broad areas within the subject. This Department concentrates on the areas of Electrical Power, and Control Systems with particular emphasis on computer applications. Nevertheless, the wholetime courses cover a broad range of topics in Electrical Engineering in order that our graduates may continue to find employment in a wide spectrum of Engineering activities.

Department of Electronic and Communications Engineering / Roinn na hInnealtóireachta Leictreonach agus Cumarsáide

Courses in Radio Communication were established in the College prior to 1918. These courses were at that time directed primarily towards the needs of Marine and Aircraft Radio Officers.

In the later 1930's however, professional and more broadly based technician courses in Electronics and Radio Engineering were established. The professional courses prepared students for external examinations conducted by the Institution of Electrical Engineers and by the Institution of Radio Engineers (later the IERE). The technician courses were mainly directed towards qualifications of the City and Guilds of London Institute.

At present this Department provides a range of third-level courses, both wholetime and part-time, in the fields of Electronic, Communications and Computer Engineering at technician and degree level. It is jointly responsible with the Department of Control Systems and Electrical Engineering for the conduct of the Honours Diploma course in Electrical/Electronic Engineering.

Department of Languages and Industrial Studies / Roinn na Teangeolaíochta agus Staidéir Gnó

The Department of Languages and Industrial Studies provides, to the other Departments of the College, courses in Business and Management Studies, Communication Studies, General Studies and Modern Languages. Such courses are an integral part of all whole-time courses and of many part-time courses. The Department also provides a whole-time three year Diploma Course in Languages and Business, courses in Languages for Specific Purposes, a

Post-Graduate Diploma Course in Applied Linguistics and a Post-Graduate Diploma Course in Translation.

Department of Electrical Installation / Roinn Instealbhú Leictreach

Electrical Apprentices represent the majority of the students in this Department, and the technical education of apprentice electricians has been provided by the Electrical Installation Department since the First World War. The first apprentices were sent by Dublin Gas Company in 1918; a substantial amount of maintenance was necessary there due to the wide range of electrical equipment installed - including their own generating plant. In 1928 Dublin Corporation sent their apprentice electricians to the College in Kevin Street and in 1938 a very successful blockrelease course for ESB apprentices commenced.

The present block-release format is based on the original ESB Scheme; however day-release courses are also provided, the particular course attended depends on the requirements of employers. All apprentices are prepared for the Department of Education Junior and Senior Trade Examinations, also a

substantial number of students sit for the City and Guilds of London Institute Examinations.

The provision of evening courses has been a long established feature of the Department's activities; these provide opportunities for apprentices and electricians to add to their basic qualifications. They also enable personnel in the electrical industry to keep abreast of the most modern developments relating to Electrical Installation Technology.

In 1975 a course in Electrical and Electronic Draughting commenced and is the only course at present in the Department not specifically for apprentices or electricians. This wholetime course prepares students for careers in drawing offices throughout the electrical and electronic industries.

National Bakery School / Scoil Náisiúnta Báicéireachta

The National Bakery School situated in the Dublin Institute of Technology, Kevin Street is the only bakery school in the Republic of Ireland. It celebrated its Golden Jubilee in 1986. The School has been engaged in the training and education of bakery apprentices since its foundation. In 1973 a whole-time Diploma Course in Bakery Production and Management was started to cater for the supervisory and management needs of the industry. This has proved to be a very popular course and since its introduction the demand for places has far exceeded the number available.



In Autumn 1990, Ms. Jacqueline O'Brien, Ballydoyle, Co. Tipperary, graduated with Distinction from the Technician Diploma in Photography course. On the 22nd October, 1990 a Retrospective Exhibition of her work was opened by An Taoiseach, Mr. Charles J. Haughey TD in Arnotts Gallery, Henry Street. Photograph shows Mrs. O'Brien (centre) conducting An Taoiseach and Mr. D.H. Davison, Head of Photography Section, DIT Kevin Street, around the exhibition.



The Telemecanique Awards for Automation are made annually to those students in the final year of the Technician Engineering Diploma in Electrical Engineering (DT 47) who complete the best projects on programmable logic controllers (PLC's).

The photograph shows, from left to right:

Joseph Dunne, who won the prize for the best overall PLC project, Tony Riordan, Liam Jones who won the prize for the best PLC project documentation, Mr. Jean-Pierre Mura, General Manager of Telemecanique Ltd., Mr. Frank Brennan, Principal, DIT Kevin Street, Mr. Jim Rice, Marketing Manager of Telemecanique Ltd, Declan Daly and John Penston.



SECTION H.1

Academic and Technical Staff
The College Administration

Picture shows post-graduate chemistry students at work in a well-designed project laboratory. The number of post-graduate chemistry students registered for MSc and PhD research projects has increased rapidly in recent years. Most of the projects are partly funded by Eolas and also have significant industrial involvement. The nature of the projects covers such topics as precious metal extraction, electrochemical sensors, synthesis and development of pharmaceuticals, ozone depletion by CFCs in the upper atmosphere and chemical analysis of irradiated food. The department facilities include: NMR (80MH), FTIR, Raman, UV/vis, AA/FE, GC, HPLC, GC-MS and GC-FTIR. The ability to respond to industrial and national requirements has enabled the chemistry department to attract generous funding from such companies as Bord na Mona, Connary Minerals, Ricesteele Pharmaceutical Manufacturers, and some EC-based industrial consortia.

FOIREANN

PRINCIPAL / PRÍOMH-OIDE

Francis M. Brennan DipEE CEng FIEI FIEE

Secretary / Rúnaí

Janette McFall

VICE-PRINCIPALS / LEAS PRÍOMH-OIDÍ

J. Kieran Taaffe BSc MSc CPhys MInstP MBA HDipEd DipProd Barrister-at-Law

Position Vacant

Acting Secretary / Rúnaí Gníomhach

Mairéad Brady

SECRETARY / REGISTRAR RÚNAÍ / CLÁRAÍTHEÓIR

Damien G. Gallanagh

Secretary / Rúnaí

Yvonne Cooke

INDUSTRIAL LIAISON OFFICER / OIFIGEACH TEANGAMHALA DÉANTÚSAÍOCHTA

Peter F. Kavanagh BSc PhD

Assistant to Industrial Liaison Officer / Cuntóir don Oifigeach Teangamhala Déantúsaíochta

Katherine Fitzgerald BA



On the 4th April, 1991 DML hosted a special student seminar on lighting techniques at their Portobello premises. Over fifty photography students attended. The seminar was given by Mr. Kevin Taylor of London on behalf of BRON Electronic of Switzerland.

The photograph shows, from left to right: Ms. Moya Costello and Conor Kelly (Phase Two Photography Students), Mr. Stephen Coonan, Photography Lecturer, and Mr. Kevin Taylor.

ROINN NA BITHEOLAÍOCHTAÍ

HEAD / CEANNASAÍ:

Brid Ann Ryan BSc MSc CBiol MIBiol DipIndMicrob

ASSISTANT HEADS / LEAS-CEANNASAITHE:

Patrick J. Davey BA(Mod) PhD CBiol MIBiol Liam M. Lawlor FIMLS

DEPARTMENT SECRETARY / RÚNAÍ NA ROINNE:

Ide Farrelly

ACADEMIC STAFF / FOIREANN ACADÚIL:

Louis M. Armstrong BSc PhD
Thomas M. Cooke DipMedLabSc FIMLS
Valerie M. Dowding MA PhD
Joan D. Forsdyke BSc PhD
John R. Gray BSc(Agric) CBiol MIBiol
John Jackson DipMedLabSc PhD FIMLS FAMLS — Clinical
attachment in Clinical Immunology to St. James's Hospital,

Dublin 8.

Pamela P. Kearney DipDiet&Nutr MSc (On Career Break)
Jennifer Keogh DipDiet MINDI — Clinical attachment in

Therapeutic Dietetics to St. James's Hospital, Dublin 8. Ursula A. MacEvilly BSc MSc PhD AIFSTI

John J. McEvoy BSc BA BD BSc(Econ) AIFSTI

Patrick J. McHale BA(Mod) MA PhD FAMLS

Tomás J. MacSiomóin BSc PhD DipIndMicrob

Paul M. Mathias BSc MSc PhD

Mary T. Moloney DipDiet MSc MINDI — Clinical attachment in Therapeutic Dietetics to St. James's Hospital, Dublin 8.

Derek Nevlan BSc PhD

Noirín Noonan MB BCh BAO MRCPI — Clinical attachment in Medicine to St. James's Hospital, Dublin 8.

Colm P. O'Rourke DipMedLabSc FAMLS

Raymond A. Ryan BSc PhD

Thomas G. Scott PhD FIMLS FAMLS
Sheila Sugrue DipDiet&Nutr MSc MINDI
Elizabeth M. Sweeney BSc CBiol MIBiol FRAMI
John J. Tighe BA(Mod) MA MSc PhD
Joseph G. Vaughan DipMedLabSc FIMLS
Brian P. Woods BSc MSc

CONTRACT LECTURERS / LÉACHTÓIRÍ FÉ CHONRADH:

Monica Fagan FIMLS Katherine Sweeney BSc PhD Katherine Younger BSc PhD

HONORARY CLINICAL TUTORS IN DIETETICS / CLINIC OIDÍ OINIGH SAN DAONBHEATHÚ:

Gráinne Bogue DipDiet&Nutr MINDI, International Missionary Training Hospital, Drogheda.

Ann Hughes DipDiet&Nutr MINDI, Beaumont Hospital, Dublin.

Philomena Flood DipDiet MINDI, St. James's Hospital, Dublin.

Stephanie Mulligan DipDiet&Nutr MINDI, Federated Dublin Voluntary Hospitals, Dublin.

June Ruigrok DipDiet&Nutr MINDI, St. Vincent's Hospital, Elm Park, Dublin.

PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

Yvonne Abbott CGLI Eva Anthony VN Catherine Burke VN Margaret Cannon BSc MPhil Anthony Carroll AMR AHA AMBIM Derek Cullen FIMLS
Mary Duane RANA
Hugh Larkin BVM MRCVS
Thomas McDermott BSc MSc
Brian McKenna BE MEngSc
Maureen McCollough TechCertAppSc
Tansey Millerick BSc
Nuala O'Byrne-Ring BSc PhD
Judith Prudy BVSc MRCVS
Maureen Prendergast BVM MRCVS
Vincente Rodilla BSc MSc PhD
Brendan Smyth MBV
Margaret Swords AMR
Laura Woodward BVM MRCVS

VISITING LECTURERS IN MEDICAL LABORATORY SCIENCES / LÉACHTÓIRÍ CHUARDA SAN EOLAÍOCHT SAOTHARLAINNE LEIGHIS:

Colma Barnes FIMLS John Brand FIMLS Breda Carroll FIMLS Pauline Coakley FIMLS Aidan Cranny FIMLS Robert Doughty BSc PhD FIMLS Liam English FIMLS Frederick Falkiner BSc PhD Brendan Finucane BSc PhD Anthony Finch FIMLS Eamonn Fitzpatrick FIMLS Noel Gibbons FIMLS John Giddings BSc PhD Colm Grogan FIMLS Gerard Judge FIMLS MSc John Keating FIMLS Dennis Kilshaw IP FIMLS CBiol MIBiol

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Desmond Kenny BSc MSc MRCPath
Eimear Lalor MB MRCPath DCH
Seán McCann MD MRCPath
Seán Maguire BSc PhD
Seán O'Briain MD FRCPath

Rory O'Moore MD MRCPath
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Alec Whelan PhD FIMLS

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TECHNICAL STAFF / FOIREANN TEICNIÚL:

Patricia Brennan RT(CSLT)Canada
Daireen Caffrey TechDipAppSc
Ted Doody TechDipAppSc
Breege Keenan CGLI(Biochem)
Ronan Leydon CGLI AIST
Stephanie Mulgrew CertMedLabSc MSc MIBiolI
Patricia Taylor TechDipAppSc

RESEARCH STAFF / FOIREANN TAIGHDE:

Deirdre Burgess TechDipAppSc GIFST
Glenn Darcy TechDipAppSc
Brian Hassett TechDipAppSc
Linda Hendy BSc
Sharon McGonigle TechDipAppSc
Katherine O'Sullivan BSc(Human Nutrition and Dietetics)
Kimberley Shiel BSc(Human Nutrition and Dietetics)
Gwilym Williams BSc

LABORATORY AIDES / CÚNTÓIRÍ SAOTHARLAINNE:

Ann Collier Phyllis Davis Kathleen Johnson David White

In March 1991, at the invitation of the Association of Physics Technicians, Professor Jim Malone, St. James's Hospital, delivered a lecture "Physiological Signals and Images in Medicine" to a large and enthusiastic audience. Pictured, from left to right: Professor Malone, Ms. Mary Fitzsimmons, St. James's Hospital, Ms. Lorraine Currivan, Chairperson, APT, Mr. Joe Guy.



AONAD BÁICÉIREACHTA: SCOIL NÁISIÚNTA BÁICÉIREACHTA

ACADEMIC STAFF / FOIREANN ACADÚIL:

Derek O'Brien NBDip FTC(CGLI)
William Graham FTC(CGLI)
Eugene Kane Dip Bakery Prod&Mangt FTC(CGLI)
Robert Humphries Dip Bakery Prod&Mangt FTC(CGLI)

CONTRACT LECTURER / LÉACHTÓIR FÉ CHONRADH:

Mary Long FTC(CGLI) DipFoodSc(DIT)

PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

Daniel T. Carey NBDip FTC(CGLI) MIIB Robert A. D'Arcy BSc James Humphries FTC(CGLI) MIBB Peter Maguire FTC(CGLI) Brendan Mealy FTC(CGLI) Bernadette Mulcahy FTC(CGLI) Fiona Hewitt Murphy NBDip FTC(CGLI)

TECHNICAL STAFF / FOIREANN TEICNIÚL:

Thomas Ahern Final(CGLI)
James O'Neill



Bakery Sector Training Initiative

In October 1990 the National Bakery School organised a training programme, in conjunction with the American Institute of Baking, Kansas, USA, for the Irish Baking Industry.

It was with the approach of 1992 in mind that the programme was specifically designed for the small- and medium-sized enterprise. Our objectives were to help these companies to re-assess their business strategy with a view to capturing niche markets and also to exploit areas of growth potential in the market place.

The five-day programme covered both Marketing (2 days) and New Product Development (3 days). A total of 29 people participated.

The photograph shows the Irish Bakery Group on the front lawn of the American Institute of Baking, Kansas, USA.

ROINN NA CEIMICE

HEAD / CEANNASAÍ:

Eamonn Rothery BSc CChem FRSC FICI MIBioII

ASSISTANT HEADS / LEAS-CEANNASAITHE:

Diarmuid A. MacDaeid BSc MSc PhD CChem FRSC FICI Noel R. Russell BA(Mod) PhD HDipEd CChem MRSC

DEPARTMENT SECRETARY / RÚNAÍ NA ROINNE:

Mairéad Brady

ACADEMIC STAFF/FOIREANN ACADÚIL:

Paul M. Ashall BSc FICI CChem MRSC
Liam S. Breen BSc DipChemTech
John F. Cassidy DiplSc(AppSc) BSc(AppSc) PhD CChem MRSC
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Mark Jeffares BA PhD
Peter F. Kavanagh BSc PhD
Marie T. Keating BA(Mod) PhD FICI FIMLS HDipEd
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Caroline Bowden BSc GRSC Ann Brady BA(Mod) Liam Breen DiplSc(AppSc) BSc(AppSc) PhD Ora Conaghey TechDipAppSc GRSC Sarah A. Curran TechDipAppSc GRSC Joseph Dineen DiplSc(AppSc) BSc(AppSc) Michael Donlon DiplSc(AppSc) BSc(AppSc) Lynda Doody DiplSc(AppSc) BSc(AppSc) Hugh Fav BA(Mod) Elaine Harris DiplSc(AppSc) BSc(AppSc) Adrienne Jermyn BA(Mod) Michael Jordan DipiSc(AppSc) BSc(AppSc) Anne-Marie Lawley TechDipAppSc GRSC Declan McCormac DiplSc(AppSc) BSc(AppSc) Siobhán McCormac DiplSc(AppSc) BSc(AppSc) Anthony McGee DiplSc(AppSc) BSc(AppSc) Josephine McLoughlin BSc GRSC Ruaidrhi Neavyn DiplSc(AppSc) BSc(AppSc) Niamh Nic Daeid DiplSc(AppSc) BSc(AppSc) Donncha Scollard TechDipAppSc GRSC Pauline White DiplSc(AppSc) BSc(AppSc)

TECHNICAL STAFF / FOIREANN TEICNIÚL:

S. Magee BSc H. Wallace BSc P. White

r. winte

RESEARCHERS / TAIGHDEOIRÍ:

Liam Breen DiplSc(AppSc) BSc(AppSc)
Sarah A. Curran TechDipAppSc GRSC
Michael Donlon DiplSc(AppSc) BSc(AppSc)
Siobhán McCormac DiplSc(AppSc) BSc(AppSc)
Donncha Scollard TechDipAppSc GRSC

LABORATORY AIDES / CÚNTÓIRÍ SAOTHARLAINNE

Henrietta Behan, Judy Garvey

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ROINN NA MATAMAITICE, STATISTICE AGUS RÍOMHAIREACHTA

HEAD / CEANNASAÍ:

Brendan Goldsmith BSc MSc DPhil

ASSISTANT HEADS / LEAS-CEANNASAITHE:

Thomas Ambrose BSc MSc PhD FIMA Brendan O'Shea BSc MSc PhD

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ROINN NA FISICE

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Matthew Hussey BE MS PhD CPhys FInstP CEng FIEE

ASSISTANT HEADS / LEAS-CEANNASAITHE:

Henry W.K. Hopkins MA DPhil MAPS Position Vacant

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PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

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Andrew Pender DiplSc(AppSc) BSc(AppSc)
Mairéad Reynolds DiplSc(AppSc) BSc(AppSc)
Miriam Russell DipOphthOpt FAOI
Colm Terrett DiplSc(AppSc) BSc(AppSc)
David Tilson DiplSc(AppSc) BSc(AppSc)

TECHNICAL STAFF / FOIREANN TEICNIÚL:

James Callis TechDipAppSc Alexander Campbell TechDipAppSc Desmond Hayes TechDipAppSc Joseph Keogh CGLI(Physics Tech) James Robinson CGLI(Physics Tech) Anne Scully TechDipAppSc



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Terence Kelly TechEngDip(EE)
Declan Lynch TechEngDip(EE)
Declan Mulroy NC(ElectEng) HNC(Microp&CompTech)
Laurence Quinn FTC(EEP) GradITE
Maurice Scanlon

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Position Vacant

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CONTRACT LECTURER / LÉACHTÓIR FÉ CHONRADH:

Frank Fennelly TechEngDip(TelecomEng)

PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

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John Martin DipEE Alan Moore BSc PhD Michael Moore TechEngDip(TelecomEng) Fachna Mylod DipEE BSc(Eng) Patrick Naughton DipEE Aidan O'Doherty MIEI FTC(CGLI) William O'Gorman BE CEng MIEE CDipAF Brian O'Reilly BE MIE Ronan O'Riain Michael O'Rourke FTC(CGLI) Mark Shankey TechEngDip(TelecomEng) AMIEE Cathal Sheridan FTC(CGLI) Kieran Smith Charles Smyth NDip(Elect) David Tobin BA John Tully DipAppSc BSc(AppSc) Paul Walsh DipEE BSc(Eng) CEng MIEI Philip Walsh DipEE BSc(Eng) James Wright TechEngDip(TelecomEng) DipEE BSc(Eng)

TECHNICAL STAFF / FOIREANN TEICNIÚL:

Dermot Clarke TechEngDip(Elect)
Ronald Gobl TechEngDip(TelecomEng)
Desmond Kernan TechEngDip(Elect)
Seán MacSuibhne NatDipEng(Elect)
Ronan Murphy TechEngDip(Elect)
Eamonn Skelly SRS(DeptofEd)

LABORATORY AIDE / CÚNTÓIR SAOTHARLAINNE:

Patrick Collins

DEPARTMENT OF LANGUAGES AND INDUSTRIAL STUDIES

ROINN NA TEANGEOLAÍOCHTA AGUS STAIDÉIR GNÓ

HEAD / CEANNASAÍ:

Kathleen M. Tierney MA

ASSISTANT HEADS / LEAS-CEANNASAITHE:

Miriam Broderick BA Maîtrise es Lettres HDipEd DipSupLingAppl Dermot Campbell BA MA

DEPARTMENT SECRETARY / RÚNAÍ NA ROINNE:

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Christina Albertini FilMag Siegfried Bertz DrPhil Josianne Deloire Maîtrise es Lettres Mary Faulkner BA HDipEd Barrister-at-Law Paul Gilmer BA BPh BD Maire Guilfoyle BA HDE Richard Heywood Jones BComm MEconSc Séamus Lynch MEconSc MA BComm DPA Robert McMahon BComm MBS Gerardine Montgomery BA MA MLitt HDipEd Jennifer Moreton BA MA HDipEd Kathleen Muldowney BA HDipEd (On Career Break) Damien Roche MSc(Econ)(NUI) MBA(Dub) DBS(DIT) CEurLaw(DIT) FSCA FIPA FIIS AITI MMII Janet Ryan BA MA HDipEd Mary Ryan BA HDipEd Daragh Smyth BSocSc DipEd Colette Weaire BA MA

CONTRACT LECTURERS / LÉACHTÓIRÍ FÉ CHONRADH:

Michelle Boishourdin BA Niamh Brilley BA DipTEFL CertComm Annick Ferré Maîtrise es Lettres
Dagmar Fischer Diplom Kaufmann
Carmen Oroz de Kelly PhD
Almut Schlepper Staatsexamen
Irene Schmied MA DipTrans
Isabelle Soudry BA DipAppLangs MPhil

PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

Annie Chapon IngAgro PCEAEco DEUG(Droit)
Peter Fennelly BComm ACPA
Anna-Maria Mullally BA
Michael Mulreany BA MA PhD
Jaques Nissenbaum BA

TECHNICAL STAFF / FOIREANN TEICNIÚL:

Anthony Breen CGLI(Electr)

DEPARTMENT OF ELECTRICAL INSTALLATION

ROINN INSTEALLBHÚ LEICTREACH

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John T. O'Donnell BA HDipEd IEng MIEIE MIITD

ASSISTANT HEADS / LEAS-CEANNASAITHE:

George Murphy BA MEd(Hon) HDipEd IEng MIEIE Thomas F. Dillon BA HDipEd FTC(EEP)CGLI

DEPARTMENT SECRETARY / RÚNAÍ NA ROINNE:

Tracey Roche

ACADEMIC STAFF / FOIREANN ACADÚIL:

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William Traynor IEng ACIBSE FTC(EEP)CGLI MIEIE

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Francis Ashworth Final(EEP)DeptofEd

PART-TIME LECTURERS / LÉACHTÓIRÍ PÁIRTAIMSEARACHA:

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John Butler Thomas Clerkin James Comerford Patrick Harding Neil Masterson Eamonn Murphy

AONAD CHOIRP OIDEACHAIS

LECTURER-IN-CHARGE / LÉACHTÓIR CEANNAIS:

Séamus Byrne BA DipPE DipEd(Lond)

INSTRUCTORS / TEAGASCÓIRÍ:

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James Delaney, Leading Diver, Irish Underwater Council
Ken Doyle, Volleyball Association Coach
Rosemary Greenlee, Swimming Teacher
Cyril Hardy, Swimming Teacher
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Kieran Mooney, Black Belt, Kenpo Karate
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Thomas O'Neill, Basketball Coach
Patricia Seaman, Jazz Ballet Teacher
Darina Tully, Water Safety Association Examiner

On the 8th May, 1991 the Minister of State at the Department of Health, Mr. Chris Flood TD, opened the exhibition 'Irish Tri-Colour, Colour Photography — A Dublin Discovery', in Oldbawn Community School, Tallaght. To mark the occasion Mr. Seamus MacGabhann, Principal, announced the establishment of an equipment Bursary valued at £500 to provide photographic equipment for a student from Oldbawn Community School for use during their studies on the three-year Diploma in Photography at DIT Kevin Street. This Bursary, which has been organised by the Staff of Oldbawn Community School, has been funded by businesses in the locality.

Photograph shows, from right to left: Mr. Séamus MacGabhann, Principal, Oldbawn Community School, Mr. Chris Flood TD, Minister of State at the Department of Health, Mr. J.K. Taaffe, Vice-Principal, DIT Kevin Street, Mr. Stephen Coonan, Director of the Exhibition and some of those who attended the exhibition opening and the Bursary announcement.



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A. Cromie AMIRT(C&G)

Elma Flanagan MSGAI

C. Ingle MIRT(C&G)

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COLLEGE OFFICE HOURS - Am Ghnó an Choláiste:

The opening hours of the General Office are as follows — Monday to Friday 09.30-12.30; 14.00-17.00. The General Office may also be open at special periods of the year at times which will be posted on the notice board. Except during enrolment periods, members of the academic staff will not be available for interview or consultations except by prior appointment.



The photograph shows graduates of the Honours Diploma course in Electrical/Electronic Engineering (FT21) who have just received their diplomas, together with some of their lecturers, 1st November 1990.

Back Row, left to right: Mark Halpin, Neil Devlin, Stephen McCormac, Michael Forkin, Michael McKeever, Brian Phelan, Tim Shanahan, Liam Hourigan, Bent Lave, Seán Abraham, Thomas Kehoe, Simon Briggs.

Centre Row, left to right: George McDonald, Derek O'Donnell, John Hearns, Andrea Hanson, Kieran Murphy, James McDonough, Mark Garvey, Aidan Cotter, Brendan O'Connor, Mark Mitten, Philip Twomey, Paul Brady, Gillian Flynn, Anthony Murphy, William Power, Robert Halligan, John Fullam, Michael Byrne, David Neilson, Kevin Dowling, Brendan Young, Patrick Crowley, Shane Murphy, Ronan Sylvester, Finbarr O'Carroll, Ronan McBrien.

Front Row, left to right: Aine Nolan, Lorcan Wood, Paul Clancy, Anthony Forde, James Rothwell, Mr. Colm Murray, Dr. Jonathan Fisher, Brian Nulty, Matthew Connolly, Allan Rochford, Dr. Richard Hayes.



Adrian Allen and Karl Kenna are shown doing graduate research work in the Department of Physics, to develop ultrasound scanning and digital image analysis to industrially characterise and classify beef carcasses.

SECTION H.2

Staff Distinctions, Awards and Research Grants 1986-1990

Staff Publications and Abstracts 1986-1990

Staff Exhibitions 1986-1990 Staff Presentations 1986-1990

STAFF DISTINCTIONS, AWARDS AND RESEARCH GRANTS 1st January 1986 - 31st December 1990

GRADAIM, DUAISEANNA & DEONTAISÍ TAIGHDE NA FÓIRNE 1ú Eanair 1986 – 31ú Nollaig 1990

Albertini, C. (1986 to date). Deputy Director, Irish Research Unit of the EC Machine Translation Research Project (Eurotra) at the National Board for Science and Technology.

Ashall. P. and Fisher, J.C. (1986). Dublin Institute of Technology Seed-Funding Programme Grant; Automation of a Batch Distillation unit.

Ashall, P. and Caffrey, G. (1989). Dublin Institute of Technology Seed-Funding Programme Grant; to develop microprocessor control of distillation plant.

Berber, D. (1988-90). Appointed to the Institution of Engineers of Ireland; Continuing Engineering Education Committee.

Berber, D. (1989). Dublin Institute of Technology Product Development Programme Grant; to develop and service industrial control and automation systems.

Berber, **D.** (1990). Committee Member, Electro Technical Council of Ireland (ETCI).

Berber, D.. (1990). Dublin Institute of Technology Entrepreneurship Programme Grant: Research and Development on Industrial Control and Automation Systems.

Berber, D.. (1990). Research Grant funded by Automation & Control Engineering Ltd and Eolas — The Irish Science and Technology Agency; Higher Education Industry Cooperation Scheme: Research and Development on Industrial Control and Automation Systems.

Brazil, J. (1988). Runner up prize of £2,000 for Campus Company, Energy Control Systems in the Sunday Tribune/Glen Dimplex Business Ideas Awards.

Brazil, J. (1988). Funding of £75,000 for Campus Company, Energy Control Systems under the Commission of the European Communities Programme for Energy Conservation Demonstration Projects.

Brazil, J. (1989). Commission of the European Communities Energy Demonstration Programme Grant. Brazil, J. (1989). Commission of the European Communities Oil and Gas Hydrocarbons Programme Grant.

Brazil, J. (1989). Research Grant from Eolas – the Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Electromagnetic Variator Project.

Brazil, J. (1990). Dublin Institute of Technology Seed Funding Programme Grant; To develop a small hydro reservoir control system with an integrated rain forecast facility.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Commission of the European Communities grant to fund transfer of developed hydro technology to Thailand.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Industrial Development Authority grant towards hydro research.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Industrial Development Authority grant towards offshore engineering research.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Coras Trachtala Teo grant towards travel expenses.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Eolas — The Irish Science and Technology Agency grant towards travel expenses.

Brazil, J. (1990). Through Campus Company Energy Control Systems Ltd. Grants from the German agency GKSS towards the cost of travel expenses to Germany.

Broderick, M. (1986-87). Invited member of Irish Research Unit of the EC Machine Translation Research Project (Eurotra) at the National Board for Science and Technology.

Broderick, M. (1987). Commission of the European Communities Erasmus Programme Travel Grant to visit Instituts Universitaire de Technologie, Northern France and Fachhochschulen in Nordrheinwestphalen, Germany. Broderick, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; A survey of demand for and the provision of Modern Languages for Special Purposes (LSP) at third level and in business and industry in Ireland.

Bruce, C.J. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Loctite Ltd. The Design and Construction of a Microprocessor-based instrument for the study of Electrical Insulation.

Burns, J.M. and Goldsmith, B. (1989). Minister for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant. The provision and development of a state of the art graphics facility for the evolution of surfaces.

Burns, J.M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The Development of Computer Graphics and of differential Geometry and its applications.

Caffrey, G. and Ashall, P. (1989). Dublin Institute of Technology Seed-Funding Programme Grant; to develop microprocessor control of distillation plant.

Caffrey, G. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The Development of a Microprocessor Control for a Distillation Plant.

Campbell, D. (1990). Dublin Institute of Technology Seed Funding Programme Grant; "Ireland 1-to-1", a multilingual, customised database for tourism and potential tourists to Ireland.

Cantwell, T.W., Tuffy, E.P. and Lindsay, S. (1990). Dublin Institute of Technology Seed Funding Programme Grant; To investigate the high failure rates in first year Technology Programmes and to suggest effective remedies.

Cantwell, T.W. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Measurements of indoor radon concentration in Schools in Leinster Province. Carey, D.T. (1986-90). Chairman, Competitions Committee, Bakex.

Carey, D.T. (1986). Research funding from An Bord Bainne. Research on Milk Powders and Butter Oils.

Cassidy, J.F. (1987). Dublin Institute of Technology Seed-Funding Programme Grant; Preparation of neutral gas sensors from semi-conductive polymer layers.

Cassidy, J.F. (1988). Matsumae International Foundation Research Fellowship to work with Tokirda, K., Tokyo Institute of Technology on Templated Poly(4-vinylpyridine) Coated Electrodes for use as Ion Selective Electrodes.

Cassidy, J.F. and Russell, N.R. (1988). Dublin Institute of Technology Seed-Funding Programme Grant; Incorporation of Cyclodextrins into Polymer Coatings for Use as Sensing Devices.

Cassidy, J.F. and Russell, N.R. (1989). Eolas – the Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Directions.

Cassidy, J.F. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Study of the Transport of Ir Active Ions during potential cycling of Conductive Polymer Coatings on Electrode Surfaces.

Cassidy, J.F. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Irish Environmental Services Exports. The Decomposition of Halogenated Hydrocarbons using Electrochemically generated superoxide.

Cassidy, J.F. and O'Donoghue, E. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Immunal Ltd and St. James's Hospital. Development of an Electrochemical Amperometric Biosensor for the Determination of Total Cholesterol and Triglycerides.

Cassidy, J.F. and O'Donoghue, E. (1990). Dublin Institute of Technology Entrepreneurship Programme Grant: Research and Development on Biosensors.

Cooke, T.M. (1989). Eolas – the Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Fleming Ltd., Co. Clare; the predictive value of plasma lipid profiles in patients undergoing percutaneous transluminal coronary angioplasty.

Cooke, T.M. (1989). Dublin Institute of Technology Product Development Programme Grant; to develop a method of detection and quantitative determination of lipoprotein, which is significant in the treatment of coronary heart disease.

Cooke, T.M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Investigation of Lp (a) phenotypes in restenosis post angioplasty.

Cooke, T.M. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Med Labs Ltd. The Association between total Serum Non-Esterified Fatty Acids and Restenosis in Patients undergoing Percutaneous Transluminal Coronary Angioplasty.

Coonan, S. (1988). Commission of the European Communities Erasmus Programme Travel Grant to visit Fachhochschule, Köln and the Université de Provence.

Coonan, S. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Preservation of the remaining examples of colour photography made by the process of John Joly.

Cowley, C. and Dalton, J.F. (1990). Research Grant funded by Team Aer Lingus Ltd and Eolas – The Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Research and Development on (i) Test Equipment for the Avionics Industry, and (ii) Simultaneous Transmission of Speech and Data.

Coyle, E. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Optimisation of Energy efficiency and control of electrically operated wheelchairs. Culliton, K.P. (1987-89). Chairman, Education Committee, International Optometric & Optical League.

Dalton, J.F. (1988-89). European Microcomputer Study; an EC research contract relating to community action in the microcomputer sector. The purpose of the study is to investigate the current state of standardization in the microcomputer sector and make recommendations for further European action. The contract (valued at 110,000 ECU's) was awarded to a multinational group comprising the NCC, the Greek Productivity Centre, Logica UK, the Dublin Microsystems Centre and Dalton, J.F. — Dalton, J.F. is the technical expert on electronic bus systems and I/O ports.

Dalton, J. and Cowley, C. (1990). Research Grant funded by Team Aer Lingus Ltd and Eolas – The Irish Science and Technology Agency; Higher Education Industry Cooperation Scheme: Research and Development on (i) Test Equipment for the Avionics Industry, and (ii) Simultaneous Transmission of Speech and Data.

Davison, D.H. (1986-90). National Adjudicator for Irish Independent/Irish Life National Arts Awards.

Davison, D.H. (1988). Commission of the European Communities Erasmus Programme Travel Grant to visit Fachhochschule, Köln and the Université de Provence.

Davison, D.H. (1988-90). Chairman, Exhibitions and Publications Committee, Irish Architectural Archive.

Davison, D.H. (1989). Irish Professional Photographers' Association, President's Award for services to research, education and the advancement of the Profession in Ireland.

Davison, D.H. (1990). Dublin Institute of Technology Seed-Funding Programme Grant. Research and Install an Internationally Compatible Catalogueing and Retrieval Database for the National Photographic Archive at DIT Kevin Street.

Davison, D.H. (1990). External Examiner for Photography, Dún Laoghaire School of Art and Design.

Davison, D.H. (1990). Advisor to the Irish Jesuit Congregation on the Conservation of the Father Francis Brown Photography Collection.

Davison, P.A. (1987-90). Member, Working Group 5 (Ophthalmic Equipment), Health Care Standards Committee, National Standards Authority of Ireland. (Secretary 1987-89).

Davison, P.A., Grennan, T.P. and O'Brien, D. (1989). With Campus Company Optometrics Ltd.; Sunday Independent National Business Ideas Competition; 2nd Prize.

Davison, P.A. (1989-90). Member, Bord na Radharcmhastóirí (the Opticians' Board).

Davison, P.A. (1989-90). Council Member, The Association of Optometrists, Ireland.

Davison, P.A. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The validity and efficacy of hyperacuity contrast sensitivity function and dark adaptation as predictors of post-cataract-extraction visual acuity.

Davison, P.A. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Sensory Instruments Ltd and the Mater Misericordiae Hospital. The Development and Optimisation of Test Devices for Predicting Post-Cataract Post Extraction Vision.

Dowding, V.M. (1983-86). Director, Cerebral Palsy Research Project; Central Remedial Clinic, Dublin.

Dowding, V.M. (1986). National Maternity Hospital Grant for study of the effects on pregnancy of the influenza epidemic of spring 1986.

Dowding, V.M. (1989). Prize for best paper presented at the All-Ireland Social Medicine meeting. October.

Downing, C. (1990). Research Grant funded by Cara Data Processing Ltd; Research and Development in Digital Electronics.

Doyle, E. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Clinical Evaluation of tear tests and their application in contact lens fitting.

Ennis, P. (1990). Industrial placement with Unilever Environmental Engineering under the Commission of the European Communities Comett Programme.

Ennis, P. and Russell, N.R. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Investigation of the effect of chemical inclusion on the photochemical activity of Ruthenium complexes.

Farrell, G. (1986). Dublin Institute of Technology Seed-Funding Programme Grant; Application of Signal Processing Techniques to modern design.

Farrell, G. (1984-87). Industrial Development Authority, in association with BETA Electronics Ltd.; design and development of a Telex/Voice Multiplex Unit.

Farrell, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The investigation and development of a low-cost controller for use in agricultural and intensive farming applications.

Fennell, J. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Apex Electrical Ltd, Ramparts, Dundalk, Co. Louth. Automatic Control of a Single to Three Phase Converter.

Fisher, J.C. and Ashall, P. (1986). Dublin Institute of Technology Seed-Funding Programme Grant; Automation of a Batch Distillation Unit.

Fisher, J.C. (1987). Commission of the European Communities Erasmus Programme Travel Grant to visit Escuela Universitaria de Ingenieria Tecnica Industrial, Madrid, Spain.

Fisher, J.C., Hayes, R. and Grimson, W.T.C. (1989). Minister for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant; the improving of a specialised laboratory in the area of digital signal processing, concentrating in the following areas: (i) the techniques of DSP as applied to problems in Control/Instrumentation, (ii) medical applications, (iii) machine signature analysis, (iv) speech application.

Fisher, J.C., Murray, C., Grimson, W.T.C. and Hayes, R. (1990). Funding under the Commission of the European Communities Structural Funding for Ireland under the Regional Infrastructure Measure of the Science and Technology Development Programme (Campus Infrastructure) to develop an Industrial Control Centre.

Foley, M.B. and Kavanagh, P.F. (1986). Research Grant from the National Board for Science and Technology/Tara Mines; to Develop and Improve Process Control in the Mining Industry.

Foley, M.B. and Kavanagh, P.F. (1989). Eolas – the Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Directors.

Foley, M.B. (1989). Dublin Institute of Technology Seed-Funding Programme Grant; for determination of Stable Metal-Thiourea Complexes in Gold Processing Solutions.

Foley, M.B. and Kavanagh, P.F. (1989). Bord na Móna Research Grant for process development in peat/activated carbon adsorption.

Foley, M.B. (1990). Eolas – The Irish Science and Technology Agency/Connary Minerals plc: Applied Research Programme Grant; optimisation of gold recovery in a process slurry.

Garavaglia, T. (1986-87). Dublin Institute of Technology Seed-Funding Programme Grant; to study Thermofield Methods for Electrical Network and Coherent State Systems.

Garavaglia, T. (1986). British Council Academic Travel Grant. Thermofield methods for quantum noise in electrical systems. Imperial College. London. July. Garavaglia, T. (1987). French Government Visiting Scientist Fellowship. To study Superconducting Electronics. Centre for Nuclear Studies, Saclag, France. July-September.

Garavaglia, T. (1987-88). Dublin Institute of Technology Research Committee Grant. To study reduced (squeezed) noise in Parametric Quantum Amplifiers.

Goldsmith, B. and Göbel, R. (1984-86). National Board for Science and Technology Research Grant; Endomorphism Rings of Modules over Valuation Domains.

Goldsmith, B. and Göbel, R. (1988-89). Eolas Research Grant; Realizing Algebras as Endomorphism Algebras in L — A Unified Approach.

Goldsmith, B. (1989). Director of Commission of the European Communities Sponsored Workshop on Algebra, Yarmouk University, Jordan.

Goldsmith, B. and Burns, J.M. (1989). Minister for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant. The provision and development of a state of the art graphics facility for the evolution of surfaces.

Goldsmith, B. and O'Connor, O. (1989). Research Grant funded by Eolas – the Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Computer Applications.

Goldsmith, B. and Göbel, R. (1990). Research Grant funded by German-Irish programme: Transitivity Properties in Groups.

Goldsmith, B. (1990). Research Fellowship funded by CNR (Italy) at Universita di Padova: Endomorphism Algebras and Valuation Domains.

Goldsmith, B. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The Realisation Problems for Modules over Valuation Domains.

Goodman, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Investigation of the problems associated with the use of Bar-Code article numbering under low-temperature storage conditions.

Goodman, P.G. (1990). Dublin Institute of Technology Seed Funding Programme Grant; An investigation of the interactions of Airborne Particulate matter on the Respiratory Tract of Humans.

Goodman, P.G. (1990). Dublin Institute of Technology Seed Funding Programme Grant; The design and testing of a system to monitor the size of particles delivered by inhalers.

Goodman, P.G. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Fisons Pharmaceuticals Ireland. The development of a Low Cost Particle Analysis System for the Monitoring of the workplace, environment and the testing of Pharmaceuticals.

Grennan, T.P. (1989). Eolas – the Irish Science and Technology Agency; Applied Industrial Research Programme Grant in conjunction with Essilcer Ltd., Limerick; development of an automated test instrument for the detection of glaucoma.

Grimson, W.T.C., Hayes, R. and Fisher, J.C. (1989). Minister for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant; for the improving of a specialised laboratory in the area of digital signal processing, concentrating in the following areas: (i) the techniques of DSP as applied to problems in Control/Instrumentation, (ii) medical applications, (iii) machine signature analysis, (iv) speech application.

Grimson, W.T.C., Hayes, R., Murray, C. and Murphy, M. (DIT Bolton Street) (1990). Funding from Cryo-cell International Inc., New Jersey, USA for feasibility study on the design and production of medical equipment.

Grimson, W.T.C., Murray, C., Hayes, R. and Fisher, J.C. (1990). Funding under the Commission of the European Communities Structural Funding for Ireland under the Regional Infrastructure Measure of the Science and

Technology Development Programme (Campus Infrastructure) to develop an Industrial Control Centre.

Grimson, W.T.C. and Hayes, R. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Development of a System for the Measurement and Analysis of Eye Movement.

Hallinan, F. (1982-1987). Irish Heart Foundation Award for: Production of Monoclonal Antibodies against the Apoproteins of Human Plasma Lipoproteins, in collaboration with O'Kennedy, R. (National Institute for Higher Education, Dublin).

Hallinan, F. (1983-1986). Medical Research Council of Ireland Grant-in-Aid for: An Investigation of the Clinical Utility of Certain New Techniques for the Electrophoresis and Detection of Proteins in Polyacrylamide Gels.

Hallinan, F. (1984-1986). Cystic Fibrosis Association of Ireland Grant for: A Comparison of the Properties of Epithelial Cells of CF and Non CF Genotypes.

Hallinan, F. (1984-1986). National Board for Science and Technology, Biotechnology Strategic Research Grant for: Analysis of the Humoral Immune Response to Mycobacterium Bovis Antigens in Bovine tuberculosis.

Hallinan, F. (1985-1987). EEC Science and Technology for Development Grant for; Development of Monoclonal Antibody Based Assay Systems for the Serological Diagnosis of Tuberculosis and their Evaluation in a Clinical Laboratory in Lesotho.

Hallinan, F. (1985-1987). Department of Agriculture Grant for: Development of Monoclonal Antibody Based Assay System for the Serological Diagnosis of Bovine Tuberculosis.

Hallinan, F. (1985-1987). Children's Research Centre Grant for: Analysis of the Environment and Expression of the α -1 Antitrypsin Gene in Relation to Liver Disease in α -1 Antitrypsin Deficiency.

Hallinan, F. (1986-87). Irish Cancer Society Grant for: Analysis of the Incidence of a Novel Antithrombin III Mutant (AT Dublin) in Patients with Malignancy.

Hallinan, F.M., MacEvilly, A.U. and Ryan, R. (1987). Dublin Institute of Technology, Product/Project Development Centre Funding. Preparation and Purification of Endo-glycosidases using a New Lectin Titration Procedure.

Hallinan, F.M., MacEvilly, A.U. and Ryan, R. (1987). National Board for Science and Technology Funding for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Hallinan, F.M., MacEvilly, A.U. and Ryan, R. (1987). Funding from Biocon plc. for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Hayes, R., Grimson, W.T.C. and Fisher, J.C. (1989). Minister for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant; for the improving of a specialised laboratory in the area of digital signal processing, concentrating in the following areas: (i) the techniques of DSP as applied to problems in Control/Instrumentation, (ii) medical applications, (iii) machine signature analysis, (iv) speech application.

Hayes, R., Grimson, W.T.C., Murray, C. and Murphy, M. (DIT Bolton Street) (1990). Funding from Cryo-cell International Inc., New Jersey, USA for feasibility study on the design and production of medical equipment.

Hayes, R., Murray, C., Grimson, W.T.C. and Fisher, J.C. (1990). Funding under the Commission of the European Communities Structural Funding for Ireland under the Regional Infrastructure Measure of the Science and Technology Development Programme (Campus Infrastructure) to develop an Industrial Control Centre.

Hayes, R. and Grimson, W.T.C. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Development of a System for the Measurement and Analysis of Eye Movement.

Hayes, R. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Sitronic Teoronta. Development of an Environmental Monitor-Controller for the Mushroom Industry.

Hopkins, H.W.K. (1989). Dublin Institute of Technology Seed-Funding Research Grant. Study of CP violation in neutral K meson systems produced in proton-antiproton annihilations at LEAR.

Hopkins, H.W.K. (1989). Royal Irish Academy Senior Visiting Fellowship to discuss collaborative research with Professor Gabathuler of Liverpool University, England.

Hopkins, H.W.K. (1989). Eolas – the Irish Science and Technology Agency Research Programme Grant. Measurement of the form factors in the semi-leptonic decay of the neutral K meson.

Hopkins, H.W.K. (1989). Maintenance Grant from the Joint Institute for Nuclear Research, Dubna, USSR, to discuss research at the Institute.

Hopkins, H.W.K. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Tests of CP violation with Neutral K Mesons produced in proton-antiproton annihilations at LEAR.

Hussey, M. (1984-86). Research Contract from the National Board for Science and Technology; Development of an instrument for objectively characterising the performance of medical diagnostic ultrasound scanners.

Hussey, M. (1986). Contract from National Development Corporation to develop ultrasound devices.

Hussey, M. (1986-90). Examiner for the written and oral examinations for the Diploma in Medical Ultrasound (DMU) of the College of Radiographers, London.

Hussey, M. (1988-90). Membership Interviewer for Institution of Electrical Engineers.

Hussey, M. (1988-91). Member, Organising Committee for European Conference on Bio-Impedance, Bologna, Italy, 1991.

Hussey, M. (1989). Visiting Professor, State University of New York, Stony Brook, Long Island, New York. May-June.

Hussey, M. (1989). Eolas – the Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Director.

Hussey, M. (1989-91). Research Grant from Eolas – the Irish Science and Technology Agency; Applied Industrial Research Programme Grant; Use of ultrasound scans to classify beef carcases in the EUROP system.

Hussey, M. (1989-93). Member, National Committee for Physics of Royal Irish Academy.

Hussey, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Development of an Ultrasound Spectrometer.

Hussey, M. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Loctite Ltd. Study of acoustic emission and ultrasound propagation techniques for non-destructive assessment of adhesive bonds.

Jackson, J. (1986). Trinity Trust Travel Award.

Jackson, J. (1987). Trinity Trust Travel Award.

Jackson, J. (1988). Laboratory Medicine Services Grant.

Jackson, J. (1989). Medical Research Council Medical Student Grant.

Jackson, J. (1989). Medical Research Council Grant.

Jackson, J. (1987-90). Member of the Immunology panel of reviewers for the European Journal of Clinical Investigation and Rheumatology International.

Jackson, J. (1989). Appointed founding Editor of the Journal of Biomedical Sciences. This is a quarterly journal published by the Academy of Medical Laboratory Sciences.

It has an annual budget of £20,000 and a circulation to 2,400 scientists.

Jackson, J. (1990). Medical Research Council Medical Student Grant.

Jackson, J. (1990). Irish Arthritis Foundation Research Grant.

Jeffares, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Synthesis of Prostaglandin analogues by Photochemical rearrangements of mydroxy enones.

Kavanagh, P.F., and Foley, M.B. (1986). Research Grant from The National Board for Science and Technology/Tara Mines; to Develop and Improve Process Control in the Mining Industry.

Kavanagh, P.F. (1987). Dublin Institute of Technology Product Development Programme Grant; Controlled Release Fertilizers.

Kavanagh, P.F. (1987). Dublin Institute of Technology Product Development Programme Grant; Ore concentrate analyser.

Kavanagh, P.F. (1989). Invited Expert on Commission of the European Communities Panel of Experts; Primary Raw Materials and Recycling of Non-Ferrous and Strategic Metals.

Kavanagh, P.F. and **Foley, M.B.** (1989). Eolas — The Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Directors.

Kavanagh, P.F. and Foley, M.B. (1989). Bord na Mona Research Grant for process development in peat/activated carbon adsorption.

Kavanagh, P.F. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Recovery of precious metals from waste and absorption on peat based products.

Kavanagh, P.F. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Bord na Mona. Recovery of Gold using Peat. **Keating, M.** (1986). Dublin Institute of Technology Seed-Funding Programme Grant; Production of a suitable starch base for maltodextrin manufacture.

Keating, M. and McEvoy, J. (1986). Dublin Institute of Technology Product Development Programme Funding for investigation of the use of natural colourants in Soft Drinks.

Keating, M. (1987). Dublin Institute of Technology Product Development Programme Grant; Stabilization of Natural Food Colours.

Keating, M. (1989). Research Grant funded by Eolas – the Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme; Chiral Synthesis using an Asymmetric Ruthenium Catalyst.

Keating, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Resolution of a Racemate.

Keating, M. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with the Institute of Pharmaceutical Research and Development Ltd. Chirospecific Synthesis of a number of Pharmacologically Active Drugs.

Keating, M. (1990). Research Grant funded by the Institute of Pharmaceutical Research and Development Ltd and Eolas – The Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Research and Development on Pharmaceutical Products.

MacDaeid, D. (1984-86). Funding from Metal Research Ltd., Dublin. Recovery of silver from used hospital fixer.

MacDaeid, D. (1988). Silver Medal of the Institute of Chemistry of Ireland, for services to the Profession of Chemists in Ireland. April.

MacDaeid, D. (1990). Member of Honorary Committee of ACHEMA 91 (International Meeting and Congress on Chemical Engineering and Biotechnology), Frankfurt-am-Main, Germany. MacEvilly, A.U., Ryan, R., and Hallinan, F.M. (1987). Dublin Institute of Technology, Product Development Programme Grant. Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

MacEvilly, A.U., Ryan, R., and Hallinan, F.M. (1987). National Board for Science and Technology Funding for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

MacEvilly, A.U., Ryan, R., and Hallinan, F.M. (1987). Funding from Biocon plc for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

MacEvilly, A.U. and Ryan, R. (1988). Funding from Biocon plc towards the Preparation and Purification Endoglycosidases using a New Lectin Titration Procedure.

MacEvilly, A.U. and Ryan, R. (1988). Guinness Millennium Biotechnology Research Programme; Research Directors.

MacEvilly, A.U. and Ryan, R. (1988). Dublin Institute of Technology Seed-Funding Programme Grant for Microbial Production of Endoglycosidases.

MacEvilly, A.U. and Ryan, R. (1988). Dublin Institute of Technology Product Development Grant.

MacEvilly, A.U. and Ryan, R. (1989). Funding from Biocon plc.

MacEvilly, A.U. and Ryan, R. (1989). Eolas – the Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Directors.

MacEvilly, A.U. and Ryan, R. (1989). Dublin Institute of Technology Product Development Programme Grant; to produce a more economic method of producing streptavadin, which is used in biological research. At a later stage, it is envisaged that a detection kit will be produced.

MacEvilly, A.U. and Ryan, R. (1990). Eolas - The Irish Science and Technology Agency; Applied Industrial

Programme Grant in conjunction with Biocom Biochemicals Ltd., Carrigaline, Co. Cork. Development for Streptavidin Based Assay Systems for Microbiological Analysis.

McEvoy, J. and Keating, M. (1986). Dublin Institute of Technology Product Development Programme Funding for investigation of the use of natural colourants in Soft Drinks.

McEvoy, J. (1987). Dublin Institute of Technology Product Development Programme Funding for Perfume Development.

McEvoy, J. (1987). Research and Development Grant for Vitamin Supplementation and Analysis.

McEvoy, J. (1988). Dublin Institute of Technology Product Development Programme Research and Development Grant for Snack Food Development Programme.

McEvoy, J. (1989). Research Grant funded by Eolas – the Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Development and testing of a range of cook-chill and frozen products.

McEvoy, J. (1990). Dublin Institute of Technology Seed Funding Programme Grant; To investigate temperature distributions in multi-component ready meals during: freezing, chilling and microwave regeneration.

McEvoy, J. (1990). Dublin Institute of Technology Entrepreneurship Programme Grant; Research and Development on Soft Cheeses.

McEvoy, J. (1990). Dublin Institute of Technology Entrepreneurship Programme Grant; Research and Development on Dry Mix Condiments.

McEvoy, J. (1990). Research Grant funded by Paradis Ltd and Eolas — The Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Research and Development on Food Products.

Mathias, P. (1988). National Representative for Eurofoods. Moloney, M. (1985-88). Consultant Dietitian to Kilkenny Health Project.

Moloney, M. (1986). Cow and Gate Nutrition Award; for writings in relation to Nutrition and Dietetics.

Moloney, M. (1987). Inaugural Kelloggs' Irish Dietitian of the Year Award: For Contribution to Education, Research, Clinical Practice and Advancement of the Profession in Ireland.

Moloney, M. (1989). Member of Management Committee of the Irish Nutrition and Dietetic Institute National Nutrition Survey (Sponsored by Kelloggs).

Mothersill, C. and Seymour, C.B. (1982-86). Saint Luke's Hospital Cancer Research Fund Grant; to study effects of radiation on mammalian cells in culture.

Mothersill, C., Seymour, C.B., and Moriarty, M. (Saint Luke's Hospital). (1983-86). Irish Cancer Research Advancement Board grant to study mechanisms of carcinogenesis in mammalian cells.

Mothersill, C. and Seymour, C.B. (Saint Luke's Hospital), Moriarty, M. (Saint Luke's Hospital) and Tipton, K. (Department of Biochemistry, TCD) (1985-89). Commission of the European Communities Research Grant, Radiation Protection Programme Contract; to study mechanisms of transformation by radiation in mammalian cells in culture.

Mothersill, C., Seymour, C.B. (Saint Luke's Hospital), and Tipton K. (Department of Biochemistry, TCD) (1985-89). Commission of the European Communities Research Grant, Radiation Protection Programme Contract; to study mechanisms of transformation by radiation in mammalian cells in culture.

Mothersill, C., Seymour, C.B. (Saint Luke's Hospital), and Tipton K. (Department of Biochemistry, TCD) (1985-89). Commission of the European Communities Research Grant, Radiation Protection Programme Contract; to study interaction of radiation and environmental chemicals in human cells *in vitro*.

Mothersill, C. and Malone, J.F. (Saint James's Hospital) (1985-89). Commission of the European Communities Research Grant, Radiation Protection Programme Contract; to study radiation carcinogenesis in cultured thyroid cells.

Mothersill, C. and Seymour, C.B. (Saint Luke's Hospital) (1986-88). N.D.C. Contract; to study a novel method for the production of pharmaceuticals from human cultured cells.

Mothersill, C. (1987). Awarded the Academy of Medicine in Ireland Medal for Cancer Research and invited to present the Saint Luke's Lecture for the Academy in December.

Mothersill, C. (1989). Commission of the European Communities Radiation Protection Programme Grant; investigation of existing and development of new transformation systems and assessment of the potential use in radiation protection studies, in collaboration with University of St. Andrews, Scotland and University of Valencia, Spain.

Mothersill, C. (1989). Invited Expert on Commission of the European Communities Panel of Experts to evaluate applications under the Bridge Programme; Biotechnology — In vitro Pharmacology and Texicology.

Mothersill, C. (1990). Commission of the European Communities Radiation Protection Programme Contract to study the Development of New Human Models for the study of Radiation Induced Carcinogenesis. (Involves partners in Scotland and Spain).

Mothersill, C. (1990). Cancer Research Advancement Board Grant to study Mechanisms of Radiation and Chemical Induced Carcinogenesis in Human Cells.

Mothersill, C. (1990). Conference Director for 23rd European Society for Radiation Biology Annual Meeting, (attended by 250 delegates), Dublin. September.

Mothersill, C. (1990). Irish Representative on Institute of Biology Validation and Examinations Board.

Mothersill, C. (1990). Irish Representative on European Federation for Biotechnology.

Mothersill, C. (1990). Irish Representative (Observer) on British Coordinating Committee for Biotechnology.

Mothersill, C. (1990). Irish Assessor for Commission of the European Communities Contracts submitted under the BRIDGE Programme in the Toxicology section.

Mothersill, C. (1990). External Examiner for MD student at Trinity College, Dublin and for an MIBiol (by thesis) at Newcastle University, U.K.

Mothersill, C. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Approaches to the problem of Toxocological Evaluation of the Safety of Irradiated Food, with particular reference to Risk Benefit Analysis.

Mothersill, C. (1990). Eolas — The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Value of Enviro-Control Ltd. Development and validation of an In-Vitro Test Kit using Human Cells and Tissues for cytotoxicity and carcinogenicity testing of environmental and medical substances.

Murphy, A. (1986). Council of Europe Bourse d'Etudes; Study of French Vocational Training/Education.

Murray, C., Grimson, W.T.C., Hayes, R. and Murphy, M. (DIT Bolton Street) (1990). Funding from Cryo-cell International Inc., New Jersey, USA for feasibility study on the design and production of medical equipment.

Murray, C., Grimson, W.T.C., Hayes, R. and Fisher, J.C. (1990). Funding under the Commission of the European Communities Structural Funding for Ireland under the Regional Infrastructure Measure of the Science and Technology Development Programme (Campus Infrastructure) to develop an Industrial Control Centre.

Neylan, D. (1989). Dublin Institute of Technology Product Development Programme Grant; Adaptive Immune Therapy is a new approach in the treatment of colonic cancer.

The therapy depends upon growing colon cells in culture to enable essential immune markers to be identified. The aim of the project is to isolate and market specific chemical mediators and cell culture methods to enable greater growth and survival rates for cells in culture.

Neylan, D. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Investigation and isolation of factors regulating thyroid cell growth and differentiation.

Neylan, D. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with The Medical Supply Co. The development of a cost-effective growth supplement for tissue culture medium.

O'Brien, D.C. (1990). Chairman, Irish Baking Industry Training Initiative. American Institute of Baking, Manhattan, Kansas, USA.

O'Brien, D.C. (1990). Dublin Institute of Technology Seed Funding Programme Grant; An evaluation of Long Life Bread, Pastry and Confectionery Products.

O'Connor, O. (1989). Equipment Grant from Wescan Europe Ltd., Clonshaugh Industrial Research, Coolock, Dublin 17; for research in computer applications.

O'Connor, O. and Goldsmith, B. (1989). Research Grant funded by Eolas – the Irish Science and Technology Agency; Higher Education Industry Co-operation Scheme: Computer Applications.

O'Donoghue, E. (1988-89). Dublin Institute of Technology Seed-Funding Programme Grant; Characterisation and Development of Industrially Important Catalysts.

O'Donoghue, E. (1989). French Government Fellowship with Dr. Denise Barthomeuf, Laboratoire de Reactivite de Surface et Structure, Université P. et M. Curie, Paris.

O'Donoghue, E. (1990). Dublin Institute of Technology Seed-Funding Programme Grant: Characterisation of surface structure and reactivity of various solids.

O'Donoghue, E. (1990). Student Bursary obtained by Damien Murphy GRSC under the Commission of the European Communities Brite-Euram Research Programme; Research Director.

O'Donoghue, E. (1990). Commission of the European Communities Erasmus Programme Travel Grant to visit Université P. et M. Curie, Paris, Institut de Recherche sur la Catalyseur, Lyons, Université de Potiers and Universita di Torino, Italy.

O'Donoghue, E. and Cassidy, J.F. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Immunal Ltd and St. James's Hospital. Development of an Electrochemical Amperometric Biosensor for the Determination of Total Cholesterol and Triglycerides.

O'Donoghue, E. and Cassidy, J.F. (1990). Dublin Institute of Technology Entrepreneurship Programme Grant: Research and Development on Biosensors.

O'Halloran, M. and de Paor, A. (UCD). (1986-90). Commission of the European Communities Research and Development Grant. To investigate the combustion of peat and biomass pellets in pursuit of the design of a fully automatic, pellet-fuelled central heating boiler, which operates at high efficiency over a wide range of output.

O'Halloran, M. and de Paor, A. (UCD). (1986-90). Commission of the European Communities Research and Development Grant. To develop a control system for a fully automatic, pellet-fuelled central heating boiler.

O'Hare, A.T. (1987). One Year Visiting Fellowship, CNET, Lannion, France.

O'Hare, A.T. (1989). Dublin Institute of Technology Seed-Funding Programme Grant to extend collaboration with CNET, Lannion, France on research in coherent optical communications.

O'Hare, A.T. (1990). French Government Research Fellowship to CNET, Lannion, France.

O'Hare, A.T. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Micro Mac Ltd. Refinement of Laser Based XY7 Measurement System for Positions Control of Construction and Road Building Site Plant.

O'Hare, A.T. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Preliminary Evaluation of the Performance of a Heterodyne Optical Communication Link.

O'Shea, B. and Moloney, M. (1990). Dublin Institute of Technology Seed Funding Programme Grant; the development of a software system for dietary analysis.

O'Sullivan, B. (1988). Commission of the European Communities Brite Programme Funding in collaboration with Eolas and an Italian company, to upgrade the level of automation, in terms of control, materials handling and video inspection/monitoring, of a specific manufacturing process.

O'Sullivan, B. (1988). Commission of the European Communities Sprint Programme Funding for research on the incidence and application of Advanced Manufacturing Technologies in the Engineering Section of Irish Manufacturing Industry.

Redmond, B. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with the Central Remedial Clinic. Integrated Computer Resource System for the Physically Handicapped.

Russell, N.R. (1986). Dublin Institute of Technology Seed-Funding Programme Grant; Preparation of layer-channel type complexes and investigation of their properties as host materials for SO₂ and NO₂ in the atmosphere.

Russell, N.R. (1987). Dublin Institute of Technology Seed-Funding Research Grant; Investigation of the inclusion properties of B-cyclodextrin, its derivatives and metal complexes. Russell, N.R. (1989). Eolas – the Irish Science and Technology Agency; Applied Industrial Research Grant also supported by Loctite (Ireland) Ltd.; Application of B-cyclodextrins to Phase-Transfer Catalysis of Free Radical Polymerisation of Vinylic type monomers.

Russell, N.R. and Cassidy, J.F. (1989). Eolas – the Irish Science and Technology Agency; Post-graduate Applied Research Programme; Research Directors.

Russell, N.R. (1990). Eolas – The Irish Science and Technology Agency. Post-graduate Applied Research Programme; Research Director.

Russell, N.R. and Ennis, P. (1990). Dublin Institute of Technology Seed-Funding Research Grant: Investigation of the Effect of Chemical Inclusion on the Photochemical Activity of Ruthenium Complexes.

Russell, N.R. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Research Grant also supported by Rice-Steele and Co., Ltd. Use of Metallo-ß-Cyclodextrin Chelates to enhance the Properties of New and Existing Pharmaceutical Products.

Ryan, B.A. (1986-90). Honorary Consultant, Department of Foreign Affairs Bi-lateral Aid Programme. Medical Laboratory Project, Lesotho.

Ryan, B.A. (1986-89). Council Member HEDCO (Higher Education Development Co-operation).

Ryan, B.A. (1987-90). Member, Board of Directors, Agency for Personal Service Overseas.

Ryan, B.A. and Hanratty, S. (National Blood Transfusion Service) (1988). Commission of the European Communities Award to provide expert advice in relation to the development of a health sciences educational programme for Singapore under Asian-EC STC programme.

Ryan, B.A. (1989). Advisor to the Department of Foreign Affairs and the Government of Lesotho in relation to the NHTC, Maseru, Lesotho, and Bi-lateral Aid Fellowships.

Ryan, R., MacEvilly, A.U., and Hallinan, F.M. (1987). Dublin Institute of Technology, Product/Project Development Centre Funding. Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Ryan, R., MacEvilly, A.U., and Hallinan, F.M. (1987). National Board for Science and Technology Funding for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Ryan, R., MacEvilly, A.U., and Hallinan, F.M. (1987). Funding from Biocon plc. for Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Ryan, R. and MacEvilly, A.U. (1988). Funding from Biocon plc towards the Preparation and Purification of Endoglycosidases using a New Lectin Titration Procedure.

Ryan, R. and MacEvilly, A.U. (1988). Guinness Millennium Biotechnology Research Programme; Research Directors.

Ryan, R. and **MacEvilly, A.U.** (1988). Dublin Institute of Technology Seed-Funding Programme Grant for Microbial Production of Endoglycosidases.

Ryan, R. and MacEvilly, A.U. (1988). Dublin Institute of Technology Product Development Grant.

Ryan, R. and MacEvilly, A.U. (1988). Eolas – the Irish Science and Technology Agency; Post-Graduate Applied Research Programme; Research Directors.

Ryan, R. and MacEvilly, A.U. (1989). Funding from Biocon plc. Ryan, R. and MacEvilly, A.U. (1989). Dublin Institute of Technology Product Development Programme Grant; to produce a more economic method of producing streptavadin, which is used in biological research. At a later stage, it is envisaged that a detection kit will be produced.

Ryan, R. and MacEvilly, A.U. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Biocom Biochemicals Ltd, Carrigaline, Co. Cork. Development for Streptavidin Based Assay Systems for Microbiological Analysis.

Scott, T.G. (1985-88). Medical Research Council of Ireland. Grant to study the role of adhesiveness in the pathogenesis of Gardnerella infection.

Scott, T.G. (1987-88). In collaboration with Department of Geriatric Medicine, St. James's Hospital: Funding for study of the role of adhesiveness in the pathogenicity of B. catarrhalis in respiratory infections in the geriatric population.

Scott, T.G. (1989). Appointed Deputy Editor of the Journal of Biomedical Sciences.

Scott, T.G. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Med Labs Ltd. The development of a laboratory test to detect adherent strains of Gardnerella Vaginalis.

Taaffe, J.K. (1986-90). Chairman, Nursing Education Committee, Meath Hospital, Dublin 8.

Taaffe, J.K. (1986-90). Chairman, Education Committee, Irish Council for Overseas Students.

Taaffe, J.K. and Keeling, P.W.N. (University of Dublin and St. James's Hospital) (1988). Commission of the European Communities Erasmus Programme Travel Grant to visit Agricultural University, Wageningen, The Netherlands, University of Giessen, FRG and The Athens School of Hygiene, Greece.

Taaffe, J.K. (1989). Adjudicator for Schools-Links Programme; Co-operation North.

Taaffe, J.K. (1989). Advisor to the Irish Department of Foreign Affairs and the Government of Lesotho in relation to the NHTC, Maseru, Lesotho, and Bi-lateral Aid Fellowships.

Toal, V. (1987). Royal Irish Academy Senior Visiting Fellowship to collaborate with researchers at the B.P. Konstantinov, Leningrad Institute of Nuclear Physics on Holographic Techniques and Applications.

Toal, V. (1989). Eolas – the Irish Science and Technology Agency; Applied Industrial Research Programme in conjunction with Histol Ltd., Waterford; Development of optical position transducers.

Toal, V. (1989). Dublin Institute of Technology Seed-Funding Programme Grant; for the development of Speckle Interferometers for use in Metrology and non-Destructive Testing.

Toal, V. (1989). Eolas – the Irish Science and Technology Agency; Post-Graduate Applied Research Programme; Research Director.

Toal, V. (1990). Dublin Institute of Technology Seed-Funding Programme Grant; Further development of dye sensitised photopolymers for use as holographic recording media.

Toal, V. (1990). Eolas – The Irish Science and Technology Agency; Applied Industrial Programme Grant in conjunction with Industry. Development of an Electronic Speckle Pattern Interferometer for use in non-destructive testing applications.

Traynor, W. (1988-89). Chairman, Irish Branch, Institution of Electrical and Electronics Incorporated Engineers.

Treacy, J.J. (1983-86). Commission of the European Communities. Grant No. ENV 785 EIR (H); The Determination of Possible Atmospheric Removal Pathways for Sulphur Containing Compounds.

Treacy, J.J. (1986-90). Commission of the European Communities. Grant No. EV4V-0067 (EDB); A Quantitative Study of Organonitrogen and Sulphur Atmospheric Transformations.

Treacy, J.J. (1988). Dublin Institute of Technology Seed-Funding Programme Grant; A Quantitative Study of Organonitrogen and Sulphur Atmospheric Transformations.

Treacy, J.J. (1989). Dublin Institute of Technology Seed-Funding Programme Grant; Determination of Arrhenius

Parameters for the Reaction of Ozone with Unsaturated Hydrocarbons.

Treacy, J.J. (1989). Minster for Science and Technology Scientific Equipment for Research and Development and Industrial Services Grant; Determination of Arrhenius Parameters and Reaction Mechanisms for the Gas Phase Reaction of Ozone with Unsaturated Organics.

Treacy, J.J. (1990). Dublin Institute of Technology Seed Funding Programme Grant; A Linetic Study of the Reaction of Bromine Atoms with atmospheric trace constituents.

Vaughan, J. (Sept. 1982 - Sept. 1986). Director, Medical Laboratory Training Programme, Lesotho; Ireland/Lesotho Bi-lateral Aid Development Programme.

Vaughan, J. (1990). Dublin Institute of Technology Seed Funding Programme Grant; Oncogenic Expression in Acute Myeloid Leukaemia.

Vaughan, J. (1990). Dublin Institute of Technology Seed Funding Programme Grant; To isolate DNA from Eukaryotic Cells using Bone Marrow Cells.

FOILSEACHÁIN NA FÓIRNE 1ú Eanair 1986 – 31ú Nollaig 1990

Bertz, S. (1985-1986). Translation of three articles from Current Studies in Anti-Semitism: A Handbook for the Zentrum Für Antisemitismusforschung at the Technische Universität, Berlin.

Bertz, S. (1987). Variation in Dublin English. Teanga 7 (1987), 35-53.

Breen, W., Cassidy, J.F. and Lyons, M.E.G. (1988). Anion behaviour in polypyrrole coated electrodes. International Society of Electrochemistry meeting, Glasgow. (Abstract).

Brennan, F.M., Cooke, J., MacDaeid, D. and Robinson, J.. (1987). Kevin Street College – One Hundred Years. CDVEC. Eds.

Broderick, M., Albertini, C. and Nolan M. (1986). Terminology; Chapter in Eurotra Manual for Machine Translation; EEC Publications.

Broderick, M. and Gash, M.A. (1988). Les Langues a L'Heure de L'Europe. Education; Vol. 4. No. 7.

Broderick, M. (1988). Technology in the Liberties. The German Connection. German-Irish Business. Autumn.

Broderick, M. (1990). Language for Special Purposes at Second and Third Level. Royal Irish Academy; in press.

Burns, J.M. and Goldsmith, B. (1989). On Abelian Subgroups of Symmetric Groups. Bull. London Math. Soc.; 21, 70-72.

Burns, J.M. (1989). Conjugate Loci of Totally Geodesic Submanifolds of Symmetric Spaces; in press.

Burns, **J.M**. (1989). Higher Homotropy of Compact Symmetric Spaces; in press.

Burns, J.M. and Clancy, M. (1989). Isotropy Invariant Morse Theory on Symmetric Spaces; in press.

Burns, J.M. (1989). A note on the Fundamental Group of a Compact Symmetrical Space; in press.

Campbell, D. (1989). 1992 – Aus sprachlicher Sicht. Education; Vol. 4. No. 9. 27.

Carey, D. and MacEvilly, U. (1987). A Review of the Bread and Flour Confectionery Industry in Ireland. National Board for Science and Technology.

Cassidy, J.F., Ghoroghchian, J., Sarfarazi, F., Smith, J., Pons, S. (1986). Simulation of Edge Effects in Electroanalytical Experiments Part 6; Cyclic Voltammetry at Ultramicroelectrode Ensembles. Electrochim. Acta. 31, 629-636.

Cassidy, J.F., Pons, S., Janata, J. (1986). Hydrogen Response of Palladium Coated – Suspended Gate Field Effect Transistors. Anal. Chem., 58, 1757-1761.

Cassidy, J.F., Foley, J., Pons, S., Janata, J. (1986). Polymer Coatings on Suspended Metal Mesh Field Effect Transistors in Electrochemistry. Sensors & Analysis, Eds. Smyth, M.R., Vos, J.G. Elsevier, Amsterdam. p.309-314.

Cassidy, J.F., Smith, J.J., Russell, A., Dunmore, G., Fleischmann, M., Pons, S., Ghoroghchian, J., Sarfarazi, F. and Dibble, T. (1986). Electrochemistry in the Gas Phase. Use of Ultramicroelectrodes for the Analysis of Electroactive Species in Gas Mixtures. Anal. Chem. 58, 2278-2282.

Cassidy, J.F., Ross, A.G., Vos, J.G. (1986). An Electrochemical Study of the Oxidation of Fe(CN)₆⁴⁻ Mediated by Electrodes Modified with Ruthenium Containing Polymers in Electrochemistry; Sensors & Analysis. Eds. Smyth, M.R., Vos, J.G. Elsevier, Amsterdam.

Cassidy, J.F., Vos, J.G. (1987). Polymer Modified Electrodes Part V: The Use of Hydrodynamically Modulated Rotating Disk Electrodes in the Study of the Mediated Oxidation of Fe(CN)₆⁴ at Ruthenium Containing Polymer Modified Electrodes. J. Electroanal Chem. 218. 341-345.

Cassidy, J.F., Vos, J.G. (1987). Nonstationary Processes at Polymer Coated Rotating Disk Electrodes, Part 1: Model and Simulation. J. Electroanal Chem. 235, 41-56.

Cassidy, J.F. and Vos J.G. (1987). Nonstationary Processes at Polymer Coated Rotating Disk Electrodes. Polym. Mater. Sci. Eng. 57, 588-592.

- Cassidy J.F. (1988). The North American Experience. Education. Vol.3. No.5. 32-35.
- Cassidy, J.F., Vos, J.G. (1988). Polymer Modified Electrodes Part IV, Nonstationary Processes at Polymer Coated Rotating Disk Electrodes, A study of [Ru(bpy)₂ C1(PVP)₅ Cl Films as three dimensional Mediators. J. Electrochem, Soc. 135, 863-868.
- Cassidy, J.F., O'Donoghue, E. and Breen, W. (1989). The use of containing Zeolite A Layers on glassy Carbon for D.P.A.S.V. The Analyst 114, 1509.
- Cassidy, J.F. and Tokuda, K. (1990). Quaternised Poly-(4-vinylpyridine) Coated Electrodes for Copper Ion Detection in the presence of Ligands which stabilise Copper (I). J. Electroanal. Chem.; 285, 287.
- Cassidy, J.F. and Cowney, C. (1990). D.P.A.S.V. at Mercury containing PVP coatings on glassy C electrodes, Anal. Chem. Acta. 234, 479.
- Cassidy, J.F. and Long, C. (1990). Mathematical Model for the measurement of pseudo first order rate constants in Laser flash photolysis experiments. J. Photochem. Photobiol. A, Chemistry, 54, 1.
- Cassidy, J.F. (1990). Theory for the Solution of Diffusion Equations in Electroanalytical Methods, for Wilson and Wilson's Treatise in Analytical Chemistry. Smyth, M.R. and Sveckla, G. (Eds.); in press.
- Cassidy, J.F., Breen, W., O'Donoghue, E. and Lyons, M.E.G. (1990). Electroactive cations as probes within Zeolites. Voltammetric behaviour of Hg(II) within Zeolite A. Electrochem. Acta.; in press.
- Cassidy, J.F., Breen, W. and Lyons, M.E.G. (1990). An Electrochemical Study of Cation permeability into polypyride-containing [Fe(CN)6]4-. J. Electroanal. Chem.; in press.
- Cassidy, J.F., Breen, W. and Lyons, M.E.G. (1990). Amperometric response of Electrodes coated with porous

- layers to gaussium concentration profiles in flowing streams. Electroanalysis; in press.
- Lyons, M.E.G., **Breen, W.** and **Cassidy, J.F.** (1990). Ascerbic Acid oxidation at polypyrrole coated electrodes. J. Chem. Soc. Faraday Trans.; in press.
- Caulfield, B.J. (1987). Office Procedures: A Formulism and Support Environment; ESPRIT '87, September.
- Caulfield, B.J. (1988). The Implementation of an Office Information Server; New Directions for UNIX, October.
- Caulfield, B.J. (1988). Issues in the Implementation of an Office Information Server; ESPRIT '88, November.
- Caulfield, B.J. (1990). A Pragmatic Approach for Integrating Data Management and Task Management; Modelling and Implementation Issues, EDBT '90, April.
- Coonan, S. (1990). The Discovery and Evolution of Single-Exposure Colour Photography 1860-1914. The History of Technology, Science and Society 1750-1914. University of Ulster; in press.
- Coyle, E. (1990). Gate Drive Circuits for Power Mosfets. Journal of Electrical Engineering Education. Vol. 28, No. 3; in press.
- Crehan, P. (1989). The Parameterisation of Quantisation Rules Equivalent to Operator Orderings and the Effect of Different Rules on the Physical Spectrum. J. Phys. A: Math Gen. 22, 811-822.
- Crehan, P. (1989). The Proper Quantum Analogue of the Birkhoff Gustavson method of Normal Forms. J. Phys. A: Math Gen.; in press.
- Crehan, P. (1989). A Theory of Algebraic Deformations Applied to the Study of the Commutation of Quantisation with Canonical Transformation. J. Phys. A: Math Gen.; in press.
- Culliton, P. (1988). Ophthalmic Optics: Education of Vision Care Professionals. Education. Vol.3. No.11. 26-32.

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Davison, D.H. and Nelson E.C. (1986). Buxus Camera, Augustin Henry; Moorea, Vol. 5. February.

Davison, D.H. (1986). The Chester Beatty Coronation Shah Namah of Shah Abbas. Limited edition by P.D.I. Oriental Publications.

O'Brien, E. with photography by **Davison**, **D.H.** (1986). The Beckett Country. The Black Cat Press/Faber and Faber.

Cornforth, J. and Davison, D.H. (1986). Fota House, Co. Cork. Country Life. July.

Nelson, E.C. and **Davison**, **D.H.** (1986). History of the National Botanic Gardens.

Cornforth, J. and Davison, D.H. (1986). The Casino, Marino. Country Life. March.

Massingberd, H.M. and **Davison**, **D.H.** (1986). Clonallis and the O'Connors; The Field. April.

Massingberd, H.M. and **Davison, D.H.** (1986). Castle Leslie; The Field. May.

Massingberd, H.M., **Davison**, **D.H.** (1986). Carriglass, Co. Longford; The Field. June.

Massingberd, H.M. and **Davison**, **D.H.** (1986). Blessingbourne; The Field. July.

Davison, D.H. (1986). The Restoration of the Dining Hall, Trinity College, Dublin; Irish Arts Review. Spring.

O'Brien, E. and **Davison, D.H.** (1986). Zone of Stones; Samuel Beckett's Dublin. An audio-visual publication.

Davison, D.H. (1986). New Departures; Carrolls Industries Plc. An audio-visual publication.

Davison, D.H., and Ollie, J. (1987). The Dining Hall and Atrium; Trinity College. The Architects' Journal. September.

Lockwood, W., with photography by **Davison**, **D.H.** (1987). The Word of God. Chester Beatty Library. December.

Nelson, E.C., McCracken, E.M., with photography by **Davison**, **D.H.** (1987). The Brightest Jewel; A History of the National Botanic Gardens.

Davison, D.H. (1988). The Oul Aluminium. Crossbow. June.

Davison, D.H. (1988). Detailed Photographic Survey of the Custom House Dock Buildings. June.

Davison, D.H. (1988). The Oul Aluminium. Focus. July.

Davison, D.H. (1988). Review of the Nikon FB01. Focus. September.

Connolly, Sybil with photography by **Davison**, **D.H**. (1988). In an Irish House. Weidenfeld and Nicholson. September.

Davison, D.H. and Britton, J. (1988). A Weekend with Sybil Connolly. W Magazine. New York. September.

Davison, D.H. (1988). Detailed Photographic Survey of No. 50, North Great George's Street. November.

Connolly, Sybil and **Davison**, **D.H.** (1988). Return to Birr Castle. W Magazine. New York. November.

Davison, D.H. and Davison, E.H. (1988). The Vanishing Country Houses of Ireland. The Irish Architectural Archive. An Audio-Visual Publication. November.

Davison, D.H. (1988). Photokina 1988. Focus. December.

Davison, D.H. (1988). Impressions of an Irish Countess. Birr Scientific Heritage Foundation; April.

Cornforth, J. and **Davison**, **D.H.** (1989). The Leather Room; Loreto Convent, Rathfarnham. Country Life. May.

Davison, D.H. (1989). Impressions of an Irish Countess; Audio-Visual Publication in conjunction with E.D.P. Production. April.

Davison, D.H. and Cook, A. (1989). Bellamont Forest; Belle Magazine, Sydney, Australia.

Davison, D.H. (1989). Review of; View from a Window by Heather Angel; Moorea, December.

Davison, D.H. (1990). Illustrations for the Architectural Guide to Dublin Castle by Frederick O'Dwyer. Office of Public Works, Dublin. March-November.

Davison, D.H. (1990). Illustrations for New Lease of Life, the Law Society's Building at Blackhall Place by Seán O'Reilly and Nicholas K. Robinson. The Law Society, Dublin. May.

Davison D.H. (1990). Mary, Countess of Rosse. More People and Places in Irish Science. Vol. 2. Royal Irish Academy; October.

Davison, P.A. (1986). Examining the eyes of VDU operators; Radharc 29 (6) 13-14.

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Nielsen, O.J., Donlon, M., Sidebottom, H.W. and Treacy, J.J. (1990). Reactions of OH Radicals with Alkyl Nitrates and Nitroalkanes. Proc. Eurotrac. Symposium, pp. 399-403.

Nelson, L., Rattigan, D., Neavyn, R., Sidebottom, H.W., **Treacy, J.J.** and Nielsen, O.J. (1990). Absolute and Relative Rate Constants for the Reactions of Hydroxyl

Radicals and Chlorine Atoms with a series of Aliphatic Alcohols and Ethers at 298 K. Int. J. Chem. Kinet. 22, 1111.

Nielsen, O.J., O'Farrell, D.J., **Treacy, J.J.** and Sidebottom, H.W. (1990). Rate Constants for the Gas Phase Reactions of Hydroxyl Radicals with Tetramethyl lead. Environ. Sci. Technol.; in press.

Sidebottom, H.W., El Hag, M. and **Treacy, J.J.** (1990). Reactions of Ozone with Unsaturated Organics. Cost 611 Working Party 2, EC Meeting at CIEMAT, Madrid, Spain. (Abstract).

Nielsen, O.J., Sidebottom, H.W., Donlon, M. and Treacy, J.J. (1990). Kinetics and Mechanisms for the Reaction of Hydroxyl Radicals with Alkyl Nitrates and Nitroalkanes. 11th Int. Symposium on Gas Kinetics. Assisi, Italy. (Abstract).

Nielsen, O.J., Sidebottom, H.W., Donlon, M. and Treacy, J.J. (1990). Reactions of OH Radicals with Alkyl Nitrates and Nitroalkanes. Garnish, Germany. (Abstract).

Nielsen, O.J., Sidebottom, H.W., Donlon, M. and Treacy, J.J. (1990). Reactions of OH Radicals with Alkyl Nitrates and Nitroalkanes. Eurotrac Symposium. Gaemisch-Parienkirchen, Germany. (Abstract).

Ryan, B.A. and Vaughan, J. (1987). Ireland/Lesotho Bilateral Aid Programme, Medical Laboratory Training: An Irish Success in Africa. Education Vol. 2, No. 6, 27-33.

Weaire, C. and de Kelly, C.D. (1988). El Espanol, Una Langua Con Solera. Education. Vol.3. No.11. 37-39.

White, G. (1989). The Photographic Graduation Show of 1989, Dublin Institute of Technology, Kevin Street at the Gallery of Photography, Dublin. Education.

Barry, M., O'Reilly, T., MacMathuna, P., Duenas-Laita, A., Younger, K.M., Keeling, P.W.N. and Feely, J. (1986). Zinc and oxidative metabolism in man. Irish J. Med. Sci. 156: 25.

Younger, K.M., Corcoran, E., Coakley, D., Henry, M. and Keeling, P.W.N. (1987). Cell zinc status in healthy women aged from 20 – 95 years. Irish J. Med. Sci. 156: 25.

Younger, K.M. (1988). Osteoperosis and the elderly. Institute of Food Science and Technology of Ireland Conference. Food Ireland. In press.

Younger, K.M., Corcoran, E., Forde, R., Coakley, D. and Keeling, P.W.N. (1988). The Effect of Ageing on Cellular Copper Content in Healthy Women. Irish Journal of Food Science and Technology; in press.

Younger, K.M. and Trayhurn, P. (1988). The Effect of Overfeeding following Cold Acclimatisation on Energy Balance and Brown Adipose Tissue Thermogenesis in Mice. Proceedings of the Nutrition Society; in press.

Younger, K.M., Foley, B., Crean, P., Gearty, G., Walsh, M. and Gibney, M.J. (1990). Restenosis and cholesterol accumulation by macrophages cultured in serum from patients undergoing coronary artery angioplasty. International Society for Applied Cardiovascular Biology. 1: 43-48.

Younger, K.M. (1990). Diet, blood lipids and cardiovascular disease. Irish Nursing Forum and Health Services. Vol.8. No.6, 30-34.

Younger, K.M., Foley, B., Crean, P., Gearty, G., Walsh, M. and Gibney, M.J. (1990). Adipose tissue fatty acids in patients undergoing coronary artery angioplasty. Proceedings of the Nutrition Society. Vol.49, 100A.

Sheil, K.M. and **Younger, K.M.** (1990). The effect of garlic supplementation on blood lipids and tissue plauninogen activator. Proceedings of the Nutrition Society; in press.

TAISPEANTAISÍ NA FÓIRNE 1ú Eanair 1986 – 31ú Nollaig 1990

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1986). Impressions of an Irish Countess; The Fox Talbot Museum, Lacock, England. April - June. O'Brien, E. (RCSI), Davison, D.H. and Knowlson, J. (University of Reading). (1986). The Beckett Country; University of Reading, England. May 12 - June 1. Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1986). Impressions of an Irish Countess; The Ulster Museum, Belfast. June - September. O'Brien, E. (RCSI), Davison, D.H. and Knowlson, J. (University of Reading). (1986). The Beckett Country; Stirling University, Scotland, August 11 - September 9. Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1986). The Photographs of Mary Countess of Rosse; Studio Du Mont, Photokina, Köln, Germany. September. O'Brien, E. (RCSI), Davison, D.H. and Knowlson, J.

(University of Reading). (1986). The Beckett Country; Trinity College, Dublin. September 30 — October 11. O'Brien, E. (RCSI), **Davison**, **D.H.** and Knowlson, J. (University of Reading). (1986). The Beckett Country; The Olivier Gallery, The National Theatre, London. October 20 — January 10.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: Kenny's Gallery, Galway. January 23 – February 14.

O'Brien, E. (RCSI), **Davison**, **D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: The Royal Hospital, Kilmainham, Dublin. February 21 – March 15.

O'Brien, E. (RCSI), **Davison**, **D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: The Bell Table Gallery, Limerick. March 29 – April 21:

O'Brien, E. (RCSI), **Davison**, **D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: The

Exhibition Centre, Town Hall, Castlebar, Co. Mayo. April 25 – May 23.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: Town Hall, Dundalk, Co. Louth. June 2 – 20.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: Ardhowen Theatre, Enniskillen, Co. Fermanagh. June 29 – July 25.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton Street). (1987). Impressions of an Irish Countess: Powerscourt Exhibition Centre, Co. Wicklow. July – September.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: The Ulster Museum, Belfast. August 5 – September 9.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: Clifden Arts Festival, Clifden, Co. Galway. September 21-26.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: Théâtre Rond-Pont, Paris, France. October 10 – November 4.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton Street). (1987). Impressions of an Irish Countess: The Town Hall, Dundalk, Co. Louth. November 10-23.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: The Irish Institute for European Affairs, Leuven, Belgium. November 16 – 29.

Davison, D.H., White G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton Street). (1987). Impressions of an Irish Countess: Centenary Open Days, DIT Kevin Street. November 26 – 28.

Colour Photography: A Dublin Discovery

DID YOU KNOW... that the first single-image process of colour photography and the first tangible colour photograph were both produced by an Irishman working in Dublin?

Almost a century ago, John Joly, originally from Co. Offaly, used black-and-white photographic materials to produce colour photographs.

As part of the Programme for Dublin 1991 — European City of Culture, the Dublin Institute of Technology, Kevin Street published an Exhibition entitled: IRISH TRI-COLOUR — COLOUR PHOTOGRAPHY: A DUBLIN DISCOVERY which features the photographic work of John Joly (1857-1933).

John Joly was born in Co. Offaly in 1857, the third son of John Plunket Joly, Rector of Clonsast and Julia Anna Maria Georgiana, Comtessa de Lusi. The family moved to Dublin after the sudden death of Joly's father, and John Joly received his early education at the Rathmines School.

In 1876 he entered Trinity College, Dublin, where he was to spend his entire academic career and life, initially as a civil engineer; then as a physicist and, eventually, as Professor of Geology.

Joly's scientific ideas were as practical as they were varied. He designed, among other things, an electric barometer, a photometer and a steam calorimeter. As a geologist he developed some useful theories on the age of the Earth. Through his work with radioactivity he developed the 'Dublin Method' of radium therapy for cancer sufferers.

However, it is with his work on colour photography that this exhibition is mainly concerned. A keen amateur photographer, Joly began investigations which culminated in what later became known as 'The Joly Process of Colour Photography': the first successful method of producing colour photographs with a single image. His discovery was enthusiastically received and was also hailed by the press as a 'veritable triumph of scientific research'. Joly was granted a patent for the process in 1894.

Joly photographed many subjects. Portraits, landscapes and plants all came before his camera. His main criterion was that the subject should be colourful; and the colour quality of his pictures is all the more remarkable when one considers the limitations of the materials of the time. These were not merely scientific tests, however. The composition of the photographs gives us great insight into the perceptive powers of the man, despite the appearance of some unusual props, for example, a laboratory flask in place of a vase.

These photographs have survived Ireland's Troubles of Independence, the Civil War and two World Wars. This is the first time that so many of John Joly's pictures have been brought together in this century.

Some fundamental observations on photography and colour act as an introduction to the subject of the exhibition. Relevant areas of Joly's life and scientific work are shown. There follows a description of some proposals and attempts to produce coloured images by photography which had been published prior to Joly's discovery.

A display showing the research involved in the evolution of the process introduces an explanation of the method itself. Details of the patents obtained and of the emergence of a fledgling company reveal that the problems and risks involved in bringing research and development to a commercial stage are not exclusive to modern society.

The exhibition contains many examples of the photographs which Joly used to demonstrate his process almost a century ago. Some of the original glass lantern slides have deteriorated with the passage of time while others have developed serious colour casts. To allow an element of correction of these defects and to protect the originals, the pictures are being displayed as colour prints.

The Exhibition was shown in the Gleeson Hall, DIT Kevin Street from 16th April to 3rd May 1991, in Oldbawn Community School, Tallaght from 7th May to 24th May, and in Powerscourt, Co. Wicklow, during the summer months.



The photographs taken at the Premier Opening of the Exhibition in the Gleeson Hall, DIT Kevin Street on 16th April, 1991.

Photograph shows, from left to right:

Mr. Michael O'Donnell, Director, DIT, Professor D.L. Weaire, Dean of Science Faculty, Trinity College Dublin, Professor E.T.S. Walton, Nobel Laureate, Mr. Michael O'Donnell, Director, DIT, Floyesson D.E. takibition, Mr. J.K. Taaffe, Vice-Principal, DIT Kevin Street, Mr. F.M. Brennan, Principal, Mr. Stephen Coonan, who researched and directed the Exhibition, Mr. J.K. Taaffe, Vice-Principal, DIT Kevin Street, Mr. F.M. Brennan, Principal, Mr. Stephen Coonan, who researched and directed the Exhibition of the Principal Architectural Architectur WIT. Stepnen Coonan, who researched and directed the Direction of the County of the County of the Exhibition. DIT Kevin Street, and Mr. Nicholas K. Robinson, Chairman, Irish Architectural Archive, who opened the Exhibition.







Photographed at the Exhibition Opening:

Top Left:

His Excellency the United Kingdom Ambassador, Sir Nicholas Fenn, Ms. Ann Murphy, Department of Mathematics, Statistics and Computer Science, DIT Kevin Street and Mr. Frank Feely, Dublin City and County Manager.

Top Right:

His Excellency the Swiss Ambassador, Dr. Charles Hummel, Mr. D.H. Davison, Head, Photography Section, DIT Kevin Street and Dr. Peter Kawanagh, Industrial Liaison Officer, DIT Kevin Street.

Left:

His Excellency the French Ambassador, Monsieur Michel Combal and Ms. K.M. Tierney, Head, Department of Languages and Industrial Studies, DIT Kevin Street.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1987). The Beckett Country: University of Bonn, Germany. December 10 - 30.

Archer, J. (GSI), **Davison, D.H.** and **Malone, S.** (1988). Rock by the Liffey: A joint DIT Kevin Street and Geological Survey Millennium Exhibition on Dublin's Building Stones and Environment. Geological Survey of Ireland. October 1988 – April 1989.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1988). The Beckett Country: Universitaria Madrid, Spain. February 11 – 28.

O'Brien, E. (RCSI), **Davison**, **D.H.** and Knowlson, J. (University of Reading). (1988). The Beckett Country: Public Library, New York, USA. June 17 - August 31.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1988). The Beckett Country: University of New Orleans, USA. September – December.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1988). Impressions of an Irish Countess: Old Bawn Community School, Tallaght, Co. Dublin. November 18 – December 1.

Davison, D.H. (1989). The Evolution of Photography: National College of Art and Design. April 1 – 30.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1989). The Beckett Country: Statten Gallery, Emory University, Atlanta, Georgia, USA. January 1 – February 14.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1989). Impressions of an Irish Countess: County Museum, Letterkenny, Co. Donegal. February 6 – March 17.

O'Brien, E. (RCSI), **Davison, D.H.** and Knowlson, J. (University of Reading). (1989). The Beckett Country: Sulzer Regional Library (Chicago Public Library), Chicago, USA. March 5 – 31.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1989). Impressions of an Irish Countess: Birr Castle, Birr, Co. Offaly. April 28 – September 21.

Davison, D.H. (1989). Exhibition of Recent Work. Arts Week, Cootehill, Co. Cavan. October 13 – 22.

Davison, D.H., White, G., Taaffe, J.K. and Farrell, M.P. (DIT Bolton St.) (1990). Impressions of an Irish Countess: Rothe House, Kilkenny. May 2 – July 31.

Hickey, D.C. (1989). One Man Exhibition of Paintings; The Suffolk Gallery at Woodward's Fine Art Salesrooms, Cork. 19-27 October.

O'Brien, D. (1990). Traditional Irish Bakery Products. National Bakery School, DIT Kevin Street, in conjunction with visit by group of industrialists from Wageningen, Holland. March 14th.

Toal, V., Hickey, D.C. and Hayes, D. (1986). Holographic Exhibition; Second showing at the invitation of Aer Lingus for the Young Scientists of the Year Exhibition, Royal Dublin Society. Dublin. January.

Toal, V., Hickey, D.C. and Hayes, D. (1987). Holographic Exhibition: Centenary Open Days, DIT Kevin Street, Dublin 8. November.

White, G. (1989). The Photographic Graduation Show of 1989, Dublin Institute of Technology, Kevin Street. Gallery of Photography, Dublin. 2-15 October; Director.

White, G. (1989). The Photographic Graduation Show of 1989, Dublin Institute of Technology, Kevin Street. University of Limerick. 6-21 November; Director.

White, G.E. (1989). 1989 Photography Graduate Show, Nun's Island Arts Centre, Galway. December. Director.

White, G.E. et al. (1989). Captured Light — Contemporary Irish Photography. Guinness Hop Store, Dublin. November 14 to 22 December.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Limerick City Gallery,

Limerick. January.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Garter Lane Gallery, Waterford. February.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Wexford Arts Centre, Wexford. March.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Cavan Arts Centre, Cavan. April.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Crawford Gallery, Cork. May.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Hammersmith, London. July.

White, G.E. et al. (1990). Captured Light — Contemporary Irish Photography. Gallery of Photography, Dublin. November 26 to 11 December.

White, G.E. (1990). 1990 Photography Graduate Show, Gallery of Photography, Dublin. September 15 to October 8. Director.

White, G.E. (1990). 1990 Photography Graduate Show, Lyric Players Theatre, Belfast. October 6 – 25. Director.

LATHRAISÍ NA FÓIRNE 1ú Eanair 1986 – 31ú Nollaig 1990

Ambrose, T. (1990). Mathematical Education of Engineers in Ireland, 1950-1990. Invited Seminar, University of Technology, Sydney, Australia. August.

Berber, D. (1986-90). Programmable Logic Controllers. Presenter of one week course at regular intervals. Dublin Institute of Technology Short Course Centre.

Berber, D. (1987). Training Requirements for the maintenance of Automatic Manufacturing Systems. National Maintenance Conference, Eolas, Dublin. November 26.

Berber, D. (1987). Programmable Logic Controllers. Director, Institution of Engineers of Ireland Course. November 1987 – February 1988.

Berber, D. (1987). Training requirements for the maintenance of automated manufacturing systems. National Maintenance Conference. Dublin. November.

Berber, D. (1988). Programmable Logic Controllers. Director, Institution of Engineers of Ireland Course. November 1988 – February 1989.

Berber, D. (1990). Programmable Controller Hardware and Software. IEI PLC Conference. Dublin. January.

Berber, D. (1990). Recent Developments in the Application of Programmable Controllers in C/M Systems. 7th Conference of the Irish Manufacturing Committee. Trinity College Dublin. August.

Bertz, S. (1987). Variation in Dublin English; IRAAL A.G.M., ITE, Dublin, February.

Bertz, S. (1987). Was ist Fachsprachengrammatik? Arbeitsgruppe Fachsprache, Goethe Institute, Dublin, April.

Bertz, S. (1988). Dublin English. Association of Teachers of English Summer School, Dublin, July.

Brazil, J. (1990). Stand-alone Induction Generators for use in Small Isolated Hydro Plants. Small Hydro 1990 Conference; Kuala Lumpur, Malaysia.

Brennan, F.M., Taaffe, J.K. and O'Connor, B.J. (1988). One Hundred Years of Science and Technology Education in Kevin Street; RTE Radio. Education Forum. January.

Broderick, M. (1986). Fachsprache für Anfänger ohne sprachliche Vorkenntnisse; Arbeitsgruppe Fachsprache, Goethe Institute. Dublin. January.

Broderick, M. (1986). Terminology in a Machine Translation System; Eurotra Workshop; Trinity College, Dublin. August.

Broderick, M. (1987). Developments in Terminology and Machine Translation. Italian Department, Trinity College, Dublin. February.

Broderick, M. (1987). Machine Translation in the '80s. New University of Ulster, French Department. December.

Broderick, M. (1988). German for students of technical subjects. German Teachers Association Seminar. Trinity College, Dublin. March.

Broderick, M. (1988). Workshop: Developing Course Materials for German on Vocational Training Courses. German Teachers Association. Trinity College, Dublin. November.

Broderick, M. (1989). Survey of LSP in Ireland at 2nd and 3rd level. Commission on Modern Languages. RIA. November.

Broderick, M. (1990). The Language, the Learner and LSP materials design. Association for the Promotion of French for Specific Purposes, Dublin Institute of Technology, Kevin Street, April 7.

Broderick, M. (1990). Foreign Languages and Engineering Education for the '90s. IEEE of Great Britain, London, April 11.

Bruce, C.J. (1987). Battery and Charger – an Optimum Selection. IEE Power Division Symposium, London. November 3.

Bruce, C.J. (1987). The Optimum Design of Thyristor Chargers for High Temperature NiCd Cells. CGE International Symposium, Paris. December 7.

Carey, D.T. (1986). The Case for High Extracation Rates of Flour. Bakery Conference, DIT Kevin Street, May 27.

Cassidy, J.F., Woods, B.T., and Kinsella, I.A. (1987). A Course of Laboratory experiments in Analytical and Physical Chemistry incorporating Statistical Treatment of Results. ACS Conference, New Orleans, USA, August.

Cassidy, J.F. and Vos, J.G. (1987). Nonstationary Processes at Polymer Coated Rotating disk electrodes. ACS Conference, New Orleans, USA, August.

Cassidy, J.F., Breen, W. and Lyons, M.E.G. (1988). Investigation of Polypyrrole Coated Electrodes. ISE Meeting. Glasgow.

Cassidy, J.F., Breen, W. and Lyons, M.E.G. (1989). Mediation of Ascorbic Acid Oxidation at Polypyrrole. Spring Meeting of the Electrochemical Group of the RSC (Warwick).

Tokuda, K. and Cassidy, J.F. (1989). Polymer Coatings for Cu(II) detection. ISE Meeting (Kyoto).

Cassidy, J.F. (1989). Simulation of Potential Step at Polymer coated RDE "Charge transfer in polymer systems" (Oxford).

Breen, W., Cassidy, J.F. and Lyons, M.E.G. (1990). Response of Electrodes coated with porous layers to gaussian concentration profile. Porter at Electroanalysis Conference. Asturias, Spain.

Cassidy, J.F. and Breen, W. (1990). Electrochemical Synthesis of Fluorinated Polyaniline poster at International Conference in Synthetic Metals. Tubingen, Germany.

Cassidy, J.F. and Breen, W. (1990). Ascerbic Acid oxidation at Polypyrrole coated electrodes. Bulter Conference, Edinburgh.

Cooke, T.M. (1987). Clinical Chemistry Lecture Series. Maseru, Lesotho. July.

Cooke, T.M. (1989). Clinical Chemistry Lecture Series. Maseru, Lesotho. August.

O'Connor, P., Cooke, T.M. and Feely, J. (1990). HMG CoA Reductose inhibitors and lipoprotein (a) in hypercholesterolaemia. British Pharmacological Society. Autumn Meeting, Queen's University, Belfast. September.

O'Connor, P., Cooke, T.M., Darcy, G. and Feely, G. (1990). Lipoprotein (a), Coronary Heart Disease and the response to therapy in patients with hyperlipidaemia. ACBI Annual Conference, Dublin. November.

O'Connor, P., Cooke, T.M., Darcy, G. and Feely, G. (1990). Lipoprotein (a), Coronary Heart Disease and the response to therapy in patients with hyperlipidaemia. Irish Hyperlipidaemia Association. Royal College of Surgeons in Ireland, Dublin. November.

Coonan, S. and Davison, D.H. (1986). Colour Vision Demonstrated; German Weekend Festival, Trinity College. Dublin. February.

Coonan, S. and Davison, D.H. (1986). John Joly and the Process of Colour Photography; Institute of Physics Conference on Science and Technology in Ireland — Tradition and Reform 1800-1930. Trinity College. Dublin. March.

Coonan, S. (1987). Identification and Methods of Use of Early Colour Transparency Materials from the Archive of the Photographic Society of Ireland. PSI, Dublin. October.

Coonan, S. (1988). An Overview of Colour Processes from 1861 to 1977. Extra Mural Lecture Series. University College, Dublin. December.

Culliton, K.P. (1986). Ophthalmic Instrumentation. Lecture Series in Continuing Education. Association of Optometrists, Ireland.

Culliton, K.P. (1987). Assessment of Binocular Function. Society for Continuing Optometric Education (USA).

Davison, D.H. (1986). Dwarf Rhododendrons; The Alpine Garden Society. Dublin. February.

Davison, D.H. and **Coonan, S.** (1986). Colour Vision Demonstrated; German Weekend Festival. Trinity College. Dublin. February.

Davison, D.H. and **Coonan, S.** (1986). John Joly and the Process of Colour Photography; Institute of Physics Conference on Science and Technology in Ireland — Tradition and Reform 1800-1930. Trinity College, Dublin. March.

Davison, D.H. (1986). Developments and Trends in Photography, as derived from Photokina 1986; IPPA. Eastern Region. Dublin. October.

Davison, D.H. (1986). RTE Television. Room Outside; Garden featured and discussion on aspects of design and specific cultural requirements of Rhododendrons. May.

Davison, D.H. (1986). RTE Television. Box Camera; Feature on the application of automated cameras to creative photography. September.

Davison, D.H. (1987). Dissertation and Judgement on Monochrome Prints. Photographic Society of Ireland. Annual National Competition.

Davison, D.H. (1987). Feature on Mary, Countess of Rosse. RTE Radio, June.

Davison, D.H. (1987). A New Field for the Alpine Gardener. The Alpine Garden Society. Dublin, March.

Davison, D.H. (1987). Photographing the Beckett Country. University College, Dublin, October.

Davison, D.H. (1987). Large Format Photography. Irish Professional Photographers Association Conference, Trabolgan, Co. Cork, November.

Davison, D.H. (1988). Rhododendrons for the Alpine Gardener. The Alpine Garden Society. January.

Davison, D.H. (1988). The History of Photography. National College of Art and Design. March.

Davison, **D.H.** (1988). Impressions of an Irish Countess; the photographs of Mary Rosse. The Dublin Camera Club. April.

Davison, D.H. (1988). Dwarf Rhododendrons Suitable For Small Gardens. The Royal Horticultural Society of Ireland. November.

Davison, D.H. (1990). Zone of Stones; Samuel Beckett's Dublin. Audio-Visual Presentation to the Dublin Camera Club. February 6.

Davison, D.H. (1990). Lighting Techniques for Small and Reflective Objects using Large Format Cameras. Lecturedemonstration. Irish Professional Photographers Association Professional Development Programme. Dublin. March 22-24.

Davison, D.H. (1990). Advanced Large Format Photography. 2 half-day Seminars for Dato Micrographics Ltd., Portobello Harbour, Dublin. April.

Davison, D.H. (1990). The Conservation of Photographs. The Society for Archives, July 21.

Davison, P.A. (1986). Image processing by the eyes and brain; Invited paper presented to the Annual Meeting of the Association of Physical Scientists in Medicine, Dublin. September.

Davison, P.A. (1986). Binocular vision and Glaucoma; Lectures presented to Continuing Education Course, Association of Ophthalmic Opticians Ireland, Dublin. January.

Davison, P.A. (1987). The use of Contrast Sensitivity in Visual Assessment. Lecture Series to Society for Continuing Optometric Education (USA).

Dowding, V.M. (1986). Cerebral Palsy in the Eastern Health Board Area; some preliminary findings. Rotunda Hospital, Dublin. November.

Dowding, V.M. (1989). Recent trends in prevalence of cerebral palsy in relation to birthweight in Ireland. Invited contribution to International Cerebral Palsy Association Special International Conference: "Epidemiology of Cerebral Palsy." Cambridge, UK. April.

Dowding, V.M. and Barry, C. (1989). Birthweight and social class: aetiological clues in cerebral palsy? All Ireland Society for Social Medicine Annual Meeting, Tralee. October.

Dowding, V.M. and Barry, C. (1989). Neonatal intensive care and cerebral palsy in children of very low birthweight. American Academy for Cerebral Palsy and Developmental Medicine. Meeting, San Francisco. October.

Downing, C.P. (1988). A hybrid approach to adaptive IIR filtering, 4th European Conference on Signal Processing, Grenoble, France. September.

Downing, C.P. and Foley, J.B. (1989). Improved noise canceller performance by means of an adaptive arrangement of IIR and FIR filters. International conference on acoustics, speech and signal processing, Glasgow, Scotland. May.

Edwards, J.C. George, A.M., Cramp, W.A., Hart, L.E. and Harris, G. (1984). Radiation-induced changes in cell nuclei; Radiobiology Work-in-Progress Meeting, British Institute of Radiology.

Sabovljev, S.A., George, A.M., **Edwards, J.C.** and Cramp, W.A. (1985). Radiosensitivity of human lymphocytes – an indicator in radiotherapy; Association of Radiation Research Meeting, Brighton, England.

Foley, M.B. (1990). Recovery of Precious Metals. Seminar Lecture, DIT Kevin Street.

Gash, M-A. (1987). The Reliability of Oral Examinations, ESAI Conference, Belfast, September.

Gash, M-A. (1989). Improving the reliability of the oral interview. IRAAL Symposium on Testing. Dublin City University. March.

Gilligan, J. (1987). Knowledge-based Program Construction. Computer Science Seminar, University College Dublin. January.

Gilligan, J. (1988). Knowledge-based Search for Program Pieces. Artificial Intelligence Association of Ireland Lecture Series, University College Dublin. May.

Gilligan, J. (1989). EC Esprit Project Review. Phillips Research Laboratory, Brussels, Belgium. October.

Goldsmith, B. (1986). Automorphisms and Endomorphisms of Modules; Invited Seminar, Universität Essen. Germany. February.

Goldsmith, B. (1986). Endomorphism Algebras in V = L; Invited Seminars. Universita di Padova. Italy. May.

Goldsmith, B. (1987). On Endomorphism Rings of Non-Separable Abelian p-Groups; International Conference on Abelian Groups and Modules, University of Western Australia, Perth, Australia. August.

Goldsmith, B. (1987). Transitive and Fully Transitive Abelian Groups. Invited Seminar, University College Galway, November.

Goldsmith, B. (1987). Invariants of Abelian Groups with an Application to Symmetric Groups. Mathematics Colloquium. Institute for Advanced Studies, Dublin, December.

Goldsmith, B. (1988). On Endomorphism Rings of Non-Separable Abelian p-Groups. HEDCO Sponsored Seminar, University of Dar Es Salaam. Tanzania. January.

Goldsmith, B. (1988). Maximal-Order Abelian Subgroups of Symmetric Groups. HEDCO Sponsored Seminar, University of Dar Es Salaam. Tanzania. January.

Goldsmith, B. (1988). Subgroups of the Baer-Specker Group. HEDCO Sponsored Seminar, University of Dar Es Salaam. Tanzania. February.

Goldsmith, B. (1989). Endomorphism Rings of Non-Separable Abelian p-Groups; Invited Seminar, Universität Essen, Germany. February.

Goldsmith, B. (1989). Invariants for Torsion Abelian Groups; Seminar at Workshop on Algebra, Yarmouk University, Jordan. March.

Goldsmith, B. (1989). Invariants for Torsion-free Abelian Groups; Seminar at Workshop on Algebra, Yarmouk University, Jordan. March. Goldsmith, B. (1989). A Brief History of Abelian Group Theory; Seminar at Workshop on Algebra, Yarmouk University, Jordan. March.

Goldsmith, B. (1989). Endomorphism Rings of Abelian Groups; Seminar at Workshop on Algebra, Yarmouk University, Jordan. March.

Goldsmith, B. (1989). "Chaotic" behaviour in Abelian Groups; Seminar at Workshop on Algebra, Yarmouk University, Jordan. March.

Goldsmith, B. (1989). The Realization Problem in Abelian Group Theory; Invited Seminar, University of Jordan (Amman). March.

Goldsmith, B. (1989). Recent Developments in Transitive and Fully Transitive Abelian Groups; Invited Seminar, University of Exeter, England. May.

Goldsmith, B. (1989). Separable Torsion-free Modules of Countable Density Character; Conference on Abelian Groups, Oberwolfach, Germany. June.

Goldsmith, B. (1990). On the Existence of Almost-Free Abelian Groups; Groups in Galway Conference. May.

Goldsmith, B. (1990). Modules of Countable Density Character; Invited Seminar, Universita di Padova, Italy. September.

Goldsmith, B. (1990). Abelian Subgroups of Symmetric Groups; Invited Seminar, Universita di Padova, Italy. September.

Goldsmith, B. (1990). Cotorsion-Free Algebras in L; Invited Seminar, Universita di Padova, Italy. September.

Goldsmith, B. (1990). On Groups with Finite Ulm Subgroup; Conference on Modules and Commutative Rings, Bressanone, Italy, October.

Grimson, W.T.C. and Hayes, R.G. (1987). Statistical Aspects of Signals and Noise. Medical Statistics Seminar, Trinity College, Dublin. April 30-31.

Grimson, W.T.C. and Hayes, R.G. (1988). Introduction to Digital Signal Processing; Workshop for Industry, DIT Kevin Street. September.

Grimson, W.T.C. and **Hayes, R.G.** (1988). Seminar on Electronic Aspects of Medical Instrumentation, Trinity College, Dublin. May.

Guilfoyle, M. (1990). Specialised Language: Approaches and Strategies in Teaching. French Teachers' Association, Blackrock Teachers' Centre, April 14.

Hallinan, F. (1986). New twists in the serpins; Department of Biochemistry, Trinity College. Dublin. February.

Hallinan, F. (1986). Identification of a novel antithrombin mutant, AT Dublin, with increased frequency in children with cancer; Irish Association for Cancer Research, University College Cork. May.

Hallinan, F. (1986). Clinical Chemistry Lecture Series. Maseru, Lesotho. July.

Hallinan, F. (1986). Purification of Human plasma antithomtion III; using affinity chromatography and HPLC; Biochemistry Society, Trinity College. Dublin. September.

Hallinan, F. (1986). IEF and immunoblotting in the rapid identification of mutant plasma proteins; studies of antibodies. Association of Clinical Biochemists of Ireland. Dublin. November.

Hallinan, F., O'Riordan, V., Healy, S. and Maasho, K. (1987). Production and Characterisation of monoclonal antibodies reacting with mycobacteria. Irish Society of Immunology, University of Dublin, April.

Hallinan, F., Healy, S. and McKenzie, R. (1987). Analysis of humoral immune response by immunoblotting techniques. Irish Society of Immunology, University of Dublin, April.

Hayes, R. and Grimson, W.T.C. (1987). Statistical Aspects of Signals and Noise. Medical Statistics Seminar, Trinity College, Dublin. April 30-31.

Hayes, R.G. and Grimson, W.T.C. (1988). Introduction to Digital Signal Processing; Workshop for Industry, DIT Kevin Street. September.

Hayes, R.G. and Grimson, W.T.C. (1988). Seminar on Electronic Aspects of Medical Instrumentation, Trinity College, Dublin. May.

Hussey, M. (1986). Medical Diagnostic Ultrasound for Radiographers. College of Radiographers, London. June.

Hussey, M. (1987). Recent Developments in Diagnostic Ultrasound Instrumentation. St. Vincent's Hospital, School of Radiography, Dublin. May.

Hussey, M. (1987). Applications of Physics in Medical Diagnosis — New Developments. Seminar, National Institute of Higher Education, Dublin. November.

Hussey, M. (1988). Medical Ultrasound, where does Physics come in? Seminar, Physics Department, University College Dublin. December.

Hussey, M. (1989). Basic Physics of Medical Ultrasound, Recent Developments in Diagnostic Ultrasound, Safety of Ultrasound in Medicine. Three Seminars at Biomedical Engineering Department, University Hospital, State University of New York, Stony Brook, New York. April.

Hussey, M. (1989). Medical Ultrasound Imaging. Seminar, Department of Physical Sciences, Dublin City University. December.

Jackson, J., Sim, R.B., Whelan, A. and Feighery, C. (1986). An unique case of acquired angioedema. Presented at the annual general meeting of the Irish Society for Immunlogy. TCD, April.

Jackson, J., Sim, R.B., Whelan, A. and Feighery, C. (1986). An IgG autoantibody reactive with Cl-Inhibitor in a patient with acquired angioedema. Presented at the Spring Meeting of the BSI, London, April.

Jackson, J., Sim, R.B., Whelan, A. and Feighery, C. (1986). An IgG autoantibody reactive with Cl-Inhibitor in a

patient with acquired angioedema. Presented at the 6th International Congress of Immunology, Toronto, July.

Jackson, J., Sim, R.B., Whaley, K., Jones, L. and Feighery, C. (1987). A novel autoimmune mechanism in a new autoimmune disease. Presented at the annual general meeting of the Academy of Med. Lab. Sci., Kilkenny, October.

Liddy, C., Dunne, J., Murray, A., Jackson, J., Whelan, A. and Feighery, C. (1988). The serological approach to the diagnosis of the connective tissue disorders. Presented at the annual general meeting of the Irish Society for Immunology, Galway, April.

Jackson, J. (1988). Characterisation of a new autoimmune disease. Biochemical Society Meeting, Trinity College, Dublin, March.

Jackson, J. (1988). Autoimmune angioedema. Complement Seminar; MRC Unit, Oxford University, May.

Jackson, J. (1988). Ocupationally acquired viral hepatitis in Irish pathology laboratories. Meeting on Hepatitis, Academy of Med. Lab. Sci., Dublin, September.

Jackson, J. (1988). Destabilisation of the acyl intermediate in autoimmune angioedema. European Meeting on Cl. Mainz, Germany, October.

Jackson, J. (1988). Autoimmune angioedema. Royal Adademy of Medicine in Ireland – Pathology Section. Dublin, October.

Jackson, J. (1988). The characterisation of a new clinical disorder. Biotechnology Society, NIHE, Dublin, Novmber.

Jackson, J. (1990). A new role for autoantibody in disease pathogenesis. Joint Meeting of the British Society for Immunology and the Biochemical Society. September.

Kavanagh, P.F. (1990). Hydrometallurgical extraction of Gold – The Role of Peat. Presented at "Peat as Raw Material" International Seminar, Bord na Mona Peat Research Centre, Newbridge.

Keating, M. (1987). Glucose Syrups – Science and Technology, Dublin Institute of Technology, Kevin Street Seminar, March.

Kennedy, M.M. and Keeling, P.W.N. (1986). Has Diet a Role in the Prevention of Colorectal Neoplasia? Annual Conference of the Federated Voluntary Hospitals and St. James's Hospital, Dublin, February.

Kennedy, M.M., Hayes, M., Keeling, P.W.N. and Gibney, M.J. (1987). High Fibre Diet in the Treatment of the Irritable Bowel Syndrome. Proceedings of the Irish Society of Gastroenterology, Altnagelvin Hospital, Derry, April

Kearney, J., Keating, J., Kennedy, N.P., Kennedy, M.M., Keeling, P.W.N. and Gibney, M.J. (1987). Adipose Tissue Linoleic Acid Levels in Peptic Ulcer Disease. Proceedings of the Irish Society of Gastroenterology. Altnagelvin Hospital, Derry, April.

Kennedy, M.M. (1986). Nutrition Problems. 'Talk It Over' RTE Television, May.

Kennedy, M.M. (1987). Enteral Feeding in Gastrointestinal Disease. Dietetic Symposium, Royal College of Surgeons. Dublin, March.

Kennedy, M.M. (1987). The use of Special Dietetic Products in Disease States. Pharmaceutical Society of Ireland and Irish Nutrition and Dietetic Association Conjoint Meeting, Royal College of Surgeons, Dublin, February.

Lawlor, L. (1986). Histopathology Lecture Series. Maseru, Lesotho, August.

Lawlor, L. (1987). Histopathology Lecture Series. Maseru, Lesotho, August.

Boland, F.M. and Lynch, E.R. (1986). Analysis of the Stroboscopic Waveform Mode; XI International Congress on Electron Microscopy. Kyoto, Japan, August 31 – September 7.

Boland, F.M. and Lynch, E.R. (1986). Electron Beam Testing of Integrated Circuits; Integrated Circuit Technology Conference, NIHE, Limerick. September.

Lyons, M.E.G., Kelly, J.M., McCormack, D.E. and Bartlett, P.N. (1988). The Electrochemical and Electrocatalytic Properties of Surface Deposited Nafion films containing Microparticulate Metal Oxide particles. 39th Annual Meeting of the International Society of Electrochemistry (ISE), University of Strathclyde, Glasgow.

McCormack, D.E., Kelly, J.M. and Lyons, M.E.G. (1989). Preparation and Characterisation of Nafion Bound stable Ruthenium Oxide and Iridium Oxide electrodes. Spring Informal Meeting of the RSC Electrochemistry Group, University of Warwick, Coventry.

Michas, A., Pineri, M., Durand, R. and McCormack, D.E. (1989). The Mechanism of Hydrogen and Oxygen Evolution at SPE-type Electrodes. CNRS Summer School, Montpellier, France.

MacDaeid, D. (1986). Forensic Evidence in Insurance Frauds. Insurance Institute, Limerick, November.

MacDaeid, D. (1988). The Chemist. Careers Seminar, University College, Galway. November.

MacDaeid, D. (1988). The Role of the Forensic Scientist. Farrell & Associates 4th Annual Conference, Dublin. November.

MacDaeid, D. (1989). The Anatomy of an Explosion. Raglan House. Dublin Scientific Club. February.

MacDaeid, D. (1989). Science Centre Project, Derry.

MacSiomóin, T. (1989). A Biological aspect of the Aesthetic Impulse; Irish Institute for European Affairs, Leuven, Belgium. November.

McHale, P.J. (1989). Going Over the Rapids; Annual Conference of the Academy of Medical Laboratory Sciences. Galway. November.

McMahon, R. (1985). Communication – the most effective methods; Institute of Public Administration. Dublin. March.

McMahon, R. (1986). Communication for Public Servants. Institute of Public Administration. Dublin. February.

Ryan, P.C., Maher, K.P., Hurley, G.D. and Fitzpatrick, J.M. (1986). Partial ureteric obstruction: a new accurate model. American Urology Association meeting, Atlanta, USA.

Ryan, P.C., Maher, K.P., Hurley, G.D. and Fitzpatrick, J.M. (1986). Antegrade pressure flow studies in partial ureteric obstruction. European Organisation of Urologists meeting, Budapest, Hungary.

McInerney, D.P., Maher, K.P., Hurley, G.D. and Fitzpatrick, J.M., (1986). Antegrade pressure flow studies in partial ureteric obstruction. European Organisation of Urologists meeting. Budapest, Hungary.

McInerney, D.P., Maher, K.P., Bouchier-Hayes, D. and Walsh, A. (1986). A clinical study of intra-arterial subtraction angiography in severe peripheral vascular disease. Annual Congress of the British Institute of Radiology. Bristol. England.

Maher, K.P., Malone, J.F., Hurley, G.D. and McInerney, D.P., (1986). Evaluation of the processing functions of D.S.A. image processors. Annual Congress of the British Institute of Radiology. Bristol. England.

Mathias, P.M. (1986). Assessment of Nutritional Status of the Surgical Patient. Irish Nutrition and Dietetic Association. April.

Mathias, P.M. (1986). Adaptation of a Rapid Single Test Tube Fluorometric Method for the Estimation of Selenium in Foods and Food Products. Royal Irish Academy Nutrition Meeting. Dublin. September.

Mathias, P.M. (1986). Vitamin A Content of Low Fat Milks. Royal Irish Academy Nutrition Meeting. Dublin. September.

Mathias, P.M. (1987). Vitamin E Intakes and Vitamin E Status of Children with Cystic Fibrosis in Ireland. Fat Soluble Vitamin Society. Leeds. March.

Mathias, P.M. (1987). A Case of Vitamin E Deficiency in a Child on Home Parenteral Nutrition. Fat Soluble Vitamin Society. Leeds. March.

Mathias, P.M. (1987). Trace Elements. Coeliac Society, Dublin, May.

Mathias, P.M. (1987). Toxicity of Micronutrients. Irish Association of Health Stores, Dublin, July.

Mathias, P.M. (1987). Vitamin Requirements of the Elderly. Institute of Food Science and Technology, September.

Mathias, P.M. (1987). Vitamin E in Human Health and Disease. Association of Clinical Biochemists, Dublin, November.

Mathias, P.M. (1988). Nutrition and Intelligence. The Food Programme, RTE Radio. April.

Mathias, P.M. and Salmon, E. (1989). Nutritional Composition of Some Cooked Dishes Eaten in Ireland. Proceedings of the 4th Euro Foods Meeting. Uppsala, Sweden. May.

O'Sullivan, K.R., Mathias, P.M., Tobin, A. and O'Morain, C. (1989). Risk of Adenomatous Polyps and Colorectal Cancer in Relation to Serum Antioxidants and Cholesterol Status. European Association for Cancer Research 10th Biennial Meeting, Galway. September.

O'Sullivan, K.R., Mathias, P.M., Tobin, A. and O'Morain, C. (1989). Low Blood Levels of Antioxidants and Risk of Colorectal Cancer and Polyps. Proceedings of the Irish Gastroenterological Society, Belfast. October.

O'Sullivan, K.R., Mathias, P.M., Tobin, A. and O'Morain, C. (1990). Low blood levels of Antioxidants and Cholesterol and Risk of Colorectal Cancer and Polyps. American Gastroenterological Association, San Antonio, Texas. May 13-16.

O'Sullivan, K.R., Mathias, P.M. and O'Morain, C. (1990). Effect of Oral Calcium Supplementation on Colonic Mucosal Cell Proliferation of Patients with Adenomatous Polyps. Irish Gastroenterological Association, Dublin. November 23-24.

Moloney, M. (1986). Problems of Vitamin D deficiency in the elderly population. Royal College of Physicians of Ireland. Dublin.

Moloney, M., Gibney, M.J. and Shelly, E. (1986). Kilkenny Health Project. Seven day weighed food intake on a random sample of sixty subjects. International Conference of the British Dietetic Association. London, July.

Moloney, M. and Gibney, M.J. (1987). Kilkenny Health Project, Patterns of sugar consumption. Royal Irish Academy, Nutritional Committee of Nutritional Sciences. 4th Annual Research Meeting, September.

Moloney, M. and Cannon, P. (1989). Nutrition, Diet and Health. Course Co-Director, Extramural Course, University College Dublin. Session 1988/89.

Moloney, M. (1989). Clinical Nutrition/Dietetics – A Practical Examination. Presentation to Tutors in Nutrition and Dietetics in the UK. Leeds Polytechnic. April.

Moloney, M. (1989). Clinical Nutrition/Dietetics – A Practical Presentation to Trainees of BSc(Human Nutrition and Dietetics) of the British Dietetic Association, London. November.

Moloney, M. (1989). Nutrition in the Elderly – A Practical Approach. Diploma in Gerontology. Royal College of Surgeons in Ireland. December

Moloney, M. (1989). The Kilkenny Health Project. Seminar of Applied Social Community and Policy Research in DIT Bolton Street, Dublin. December.

Moloney, M. (1990). Food and Nutrient Intakes in a Randomised Adult Population in Ireland. Irish Nutrition and Dietetics Institute, Dublin. April. Mothersill, C., Seymour, C.B., Cusack, A., O'Brien, A., Moriarty, M., Butler, M. and Hennessy, T.P. (1987). A model for the study of treatment response in human normal and tumour cells in vitro. Irish Association for Cancer Research, March.

Mothersill, C., Seymour, C.B., Cusack, A., O'Brien, A., Moriarty, M., Hennessy, T.P. (1987). A model for the study of treatment response in human normal and tumour cells in vitro. British Association for Cancer Research, April.

Seymour, C.B. and **Mothersill, C.** (1987). Quantification of radiation transformation frequencies. British Nuclear Energy Society Meeting on Health Effects of Low Doses of Ionising Radiation, London, May.

Mothersill, C., Seymour, C.B., Cusack, A., O'Brien, A., Moriarty, M. and Hennessy, T.P. (1987). Differential response of human normal and tumour tissues in culture to radiation in combination with cytotoxic agents. Meeting of Cell, Tissue and Organ Culture Society, Athens, September.

Mothersill, C., Seymour, C.B. and Alper, T. (1987). The relationship between lethal mutations and the occurence and size of the radiation survival curve shoulder. BIR Work in Progress Meeting, November.

Mothersill, C., Seymour, C.B. and Alper, T. (1988). The effect of lethal mutations in survivor colonies. British Institute of Radiology Work in Progress Meeting, London.

Seymour, C.B. and Mothersill, C. (1989). Are C3H 10T½ transformation frequencies affected by lethal mutations? Radiation Research Society Meeting, Seattle, USA.

Mothersill, C., Seymour, C.B., Moriarty, M. and Bonnar, J. (1989). A technique for the evaluation of the potential response of human gynaecological tissues to single and combined cancer therapy. Radiation Research Society Meeting, Seattle, USA.

Mothersill, C. and Seymour, C.B. (1989). Why can't we transform epithelial cells with radiation? Proc. CEC/DOE/NEB Workshop on Cell Transformation Systems Relevant to Radiation Induced Cancer in Man, Dublin.

Seymour, C.B. and Mothersill, C. (1989). Are lethal mutations relevant to radiation transformation studies? Proc. CEC/DOE/NEB Workshop on Cell Transformation Systems Relevant to Radiation Induced Cancer in Man, Dublin.

Mothersill, C., Seymour, C.B., Bonnar, J. and Moriarty, M. (1989). Evaluation of a technique for the prediction of patient response to therapy for gynaecological cancer. Irish Association for Cancer Research, Dublin.

Mothersill, C. (1990). Development of a method for predictive testing of Tumour Response — to staff at the Gray Laboratories, Mount Vernon Hospital, London, November.

Mothersill, C. (1990). Significance of Lethal Mutations in Radiobiology — to staff at the Institute for Cancer Research, Royal Marsden Hospital, London, May.

Mothersill, C. (1990). Significance of Lethal Mutations in Radiobiology — Radiobiology Laboratory, Harvard Medical School, Boston. April.

Mothersill, C. (1990). Cell Biology Research at DIT Kevin Street; Cell Biology Laboratories, NIH, Bethesda, Washington. (Prof. J. DiPaolo). January.

Mothersill, C. (1990). Cell Biology Research at DIT Kevin Street; Molecular Genetics Laboratory, UCLA, Irvine, California. (Prof. Eric Standbridge). January.

Mothersill, C. (1990). Cell Biology Research at DIT Kevin Street; Molecular Genetics Laboratory, Nijmegan, Holland. (Prof. T. Hopmann). September.

Murray, C. (1988). Small Power Systems, operation and maintenance. Seminar for Exxon Ltd., Kuala Lumpur, Malaysia. July.

Tornados, S., Neylan, D., and Mitchell, E.B. (1987). Development of IgG isotype and subclass specific antibody to tetanus and diphtheria in early life: comparison between normal and recurrently infected children. Irish Society of Immunology, Dublin.

Neylan, D., Guiney, E.J., Cottel, D. and Mitchell, E.B. (1987). The identification of a vascular endothelical cell (VEC) antigen restricted to liver and kidney. Irish Society of Immunology, Dublin.

Czerwiec, F.S., Melner, M.H., Neylan, D. and Puett, D. (1988). Elevation of c-pos and c-myc oncogene in RNA levels by gonadotropin in subconfluent cultures of murine leydig tumour cells without increased cell growth. American Society of Endocrinology. New Orleans. June.

Noonan, N.C. (1988). Biochemistry and microbiology of bile in obstructed and non-obstructed biliary systems; Irish Society of Gastroenterology in St. Vincent's Hospital, Dublin, November.

Noonan, N.C. (1989). Use of iridium 192 implant in the treatment of oesophageal carcinoma. Presented at a combined oncology, radiotherapy and surgical meeting in St. Luke's Hospital, National Centre for Radiotherapy, Dublin. May.

O'Connor, B.J., Brennan, F.M. and Taaffe, J.K. (1988). One Hundred Years of Science and Technology Education in Kevin Street; RTE Radio. Education Forum. January.

O'Donoghue, E. (1987). X-ray Analysis of Solid State Structures. ETH, Zurich, Switzerland. September.

O'Donoghue, E. (1988). Spectroscopic Techniques I. Shell Research Ltd, England. April.

O'Donoghue, E. (1988). Metal Supported Catalysts. Lehigh University, USA. August.

O'Donoghue, E. (1989). Surface Analysis and Catalysis. University of Turin, Italy. June.

O'Donoghue, E. (1989). Spectroscopic Techniques II. Shell Research Ltd, England. June.

O'Donoghue, E. (1989). Oxidation Catalysis. Rhône-Ponlenc, Paris, France. August.

O'Donoghue, E. (1989). Mixed Oxides as Catalysts. Institut de Recherche sur la Catalyseur, France. October.

Billard, M., Hui Bon Hoa, D., Favre, F., Simon, J.C., Le Rouzic, J. and O'Hare, A.T. (1989). A 242 km DPSK Heterodyne Transmission System using a Near-Travelling-Wave Optical Amplifier as Phase Modulator. COST 215 Working Group 2, Joint Meeting Sub-groups 1 and 2. Rome, December 5-7.

Billard, M., Hui Bon Hoa, D., Favre, F., Simon, J.C., Le Rouzic, J. and **O'Hare**, **A.T**. (1990). A 242 km DPSK Heterodyne Transmission System using a Near-Travelling-Wave Optical Amplifier as Phase Modulator. COST 215 Working Group 2. Meeting, Sub-group 3. Lannion, February 8-9.

Billard, M., Hui Bon Hoa, D., Morvan, M., Claveau, G., Mace, L., Condom, M. and O'Hare, A.T. (1990). Evaluation of a 140 Mbit/s CPFSK Heterodyne System using a flattened frequency discriminator. COST 215 Working Group 2, Sub-group 1/Sub-group 2 Workshop, Zurich, July 3.

O'Rourke, C.P. (1988). Transfusion Science by Degrees. Annual Conference of the Academy of Medical Laboratory Sciences. Kilkenny. November.

O'Rourke, C.P. (1989). Blood Group Changes Associated with Bone Marrow Transplantation — A Case Study. Annual Conference, Academy of Medical Laboratory Science, Galway. November.

O'Shea, B. (1987). The Role of Psychology in Competition. The Triathlon Association of Ireland. June.

O'Shea, B. (1988). An integrative approach to Marathon training. Sports Science Symposium; Sulmaniya Medical Centre, Bahrain. February.

O'Shea, B. (1988). A nutritional study of Olympians. Sports Science Symposium; Sulmaniya Medical Centre, Bahrain. February.

O'Shea, B. (1988). Final stages of Marathon training. Irish Cement – BHAA Lecture. September.

O'Shea, B. (1989). Dietary principles for optimal performance. VIII WVC Sport Science Symposium. Oregon, USA. August.

Redmond, B. (1988). Breaking the Mould of Centralised SCADA Systems. Telemetry UK Conference. London. April.

Roche, D.F. (1990). International Marketing of Educational Services – Implications for long-term policy planning. Irish Council for Overseas Students, Dublin.

Rothery, E.J. (1990). Aeneas Coffey (1780-1852). Historical Group, RSC Annual Congress, Queen's University, Belfast. April.

Russell, N.R. and McNamara, M. (1990). FTIR and Raman Evidence for Metallo-Cyclodextrin Complexation. Poster Presentation at the 5th International Symposium on Cyclodextrins, Paris. September.

Ryan, B.A. (1987). The Basotho student in Ireland: The Problems of Translocation. Irish Council for Overseas Students AGM. May.

Ryan, B.A. and Taaffe, J.K. (1990). Medical Sciences Development, National Health Training Centre and Course Accreditation and Nutrition Education. Department of Health, Maseru, Lesotho, January.

Ryan, B.A., Vaughan, J., Taaffe, J.K. and McCormack, T.F. (1990). Development Co-operation in Medical Laboratory Sciences Education and Provision: An Ireland-Lesotho Case Study. Changing Intercultural Partnerships: The Four Worlds and the New Europe. The Sixteenth Congress of the International Society for Intercultural Education, Training and Research. Kilkenny, April 11.

Ryan, B.A. (1990). The Development of a Medical Laboratory Sciences Training Programme in Lesotho; a case study of an element in Ireland's Bilateral Aid Programme. Irish Council for Overseas Students Seminar, Royal Hospital, Kilmainham, Dublin. May 1st.

Scott, T.G. (1986). Education in the Hospital Laboratory. Academy of Medical Laboratory Sciences, Education and Management Symposium. Portlaoise. February.

Scott, T.G. (1986). Adherence of Gardnerella organisms. Research Seminar, Department of Microbiology, Trinity College, Dublin. November.

Scott, T.G. (1988). Role of Adhesiveness in the Pathogenesis of Gardnerella infections. Research Conference. St. James's Hospital, Dublin. June.

Scott, T.G. (1989). Future Trends in Education in Biomedical Sciences; Lab Odyssey 2000, Royal Hospital, Kilmainham, March.

Carr, B., McKenna, G., Reilly, M., Scott, T.G., Walsh, J.B., Coakley, D. and Keane, C.T. (1989). Nutritional status and Bacterial Adherence in Elderly Patients. Meeting of the British Geriatric Society — Age and Ageing. Birmingham, April.

Daw. M., Scott, T.G. and Falkiner, F. (1989). Adhesiveness of Enterobacter cloacae in Neutroparnic Patients. Meeting of the Irish Society of Clinical Microbiologists and the Welsh Society of Microbiology. Dublin. October.

Taaffe, J.K. (1987). China, Past and Present. Dublin Scientific Club, February.

Taaffe, J.K., Brennan, F.M. and O'Connor, B.J. (1988). One Hundred Years of Science and Technology Education in Kevin Street; RTE Radio. Education Forum. January.

Taaffe, J.K. (1989). Tabhacht Infheistíocht Intel. RTE Telefís. Cursaí. Deireadh Fomhair.

Taaffe, J.K. and Ryan, B.A. (1990). Medical Sciences Development, National Health Training Centre and Course Accreditation and Nutrition Education. Department of Health, Maseru, Lesotho, January.

Taaffe, J.K., Vaughan, J., Ryan, B.A. and McCormack, T.F. (1990). Development Co-operation in Medical Laboratory

Sciences Education and Provision: An Ireland-Lesotho Case Study. Changing Intercultural Partnerships: The Four Worlds and the New Europe. The Sixteenth Congress of the International Society for Intercultural Education, Training and Research. Kilkenny, April 11.

Thornes, D., **Thorne**, V., Enright, T. and Healy, K. (1987). RF Hyperthermia in Ireland. European Society for Hyperthermic Oncology (ESHO). Cardiff. June.

Toal, V. (1986). Holographic Tomography. St. Luke's Hospital. Dublin. April.

Toal, V. (1986). Holographic Tomography. RTE Television. September.

Toal, V. (1987). Holographic Recording Media. Physical Society, NIHE, Dublin.

Toal, V. (1987). Introduction to Holography. Photographic Society, Drogheda, February 26.

Toal, V. (1987). Silver Halide Sensitized Gelatin Holography. Irish Optoelectronics Group 1st Annual Conference, Dublin, October 9.

Toal, V. (1987). The Teaching of Holography. First International Conference on Industrial Uses of Holography, Las Cruces, New Mexico, USA, October 26-30.

Treacy, J.J. (1986). Hydrogen Atom Abstraction Reactions. N.I.H.E., Dublin, March.

Sidebottom, H.W. and Treacy, J.J. (1986). Introductory Gas Chromatography. Sirte Oil Company, Briga, Libya, August.

Nielsen, O.J., Pagsberg, P., Treacy, J.J., Nelson, L. and Sidebottom, H.W. (1986). Photo-oxidation of Sulphur Containing Compounds. 4th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants. Stresa, Italy.

O'Farrell, D.J., Sidebottom, H.W. and Treacy, J.J. (1987). Reactions of Hydroxyl Radicals with Compounds of Group IV Elements. Riso, Denmark, September.

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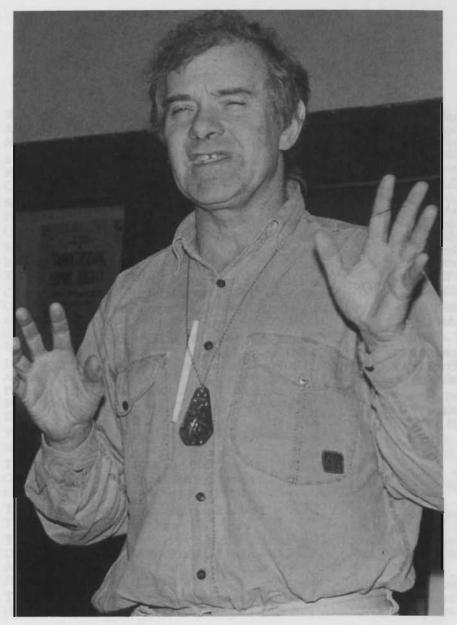
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On 7th November, 1990 Mr. Tommy McArdle presented 'A Tribute to Patrick Kavanagh' to the students and staff of DIT Kevin Street.

The evening was organised by Ms. Miriam Broderick, Assistant Head of the Department of Languages and Industrial Studies, Dr. Patrick Davey, Assistant Head, Department of Biological Sciences and Mr. Tom Ahern, National Bakery School. Music for the production was provided by Tom Coffey on the Uileann Pipes and Brendan O'Brien on Piano and Guitar.

Tommy McArdle was born in Castleblayney, Co. Monaghan. He attended St. Macartan's College, Monaghan and afterwards St. Patrick's Training College in Drumcondra. He taught for 12 years in Shercock, in Co. Cavan and while there produced his first film 'Kinkisha'. He joined RTE Youth Radio in 1973 and presented 'Radio Scoile'. He subsequently received a Jacobs Award for his work as a radio producer for the childrens' programme 'Knock at the Door' in 1974. For the past 4 years he has been director of the television series 'Glenroe'. He is presently working on two further projects 'The Burning of Brigid Cleary' and 'Angela Mooney dies again'.



SECTION I

College Library

The rapid progress which has been made in the field of solid state electronics has led to major changes in the development of more complex systems of motor control. The curriculum of the Electrical Installation courses in the Department of Electrical Installation must be constantly revised and updated to ensure that future electricians are capable of installing and operating this new technology. This photograph shows technician Eamonn Murphy assisting apprentice Joanne Bradley to set up and test a modern solid state speed control system for a three phase induction motor.

AN LEABHARLANN

Introduction

The Library plays a vital role in any academic institution. The College has readily recognised this importance, by the recent completion of an extensive new library.

Stock

The College Library presently holds a stock of about 35,000 volumes to which it adds about 3,000 volumes per year. It is possible to borrow most of the books in stock, except for recommended course texts which are placed in the Reserve Section, for consultation in the library only. There is also a collection of Standards and a Reference Section containing encyclopaediae, directories, handbooks etc.

The Library also subscribes to approximately 350 journal titles and a wide selection of current abstracts and indices. These may not be borrowed; a photocopying service is available. In circumstances where the Library stock may not meet specific requirements an excellent inter-lending service from libraries in Ireland and abroad is available.

The total stock held by the Library

represents not only the subjects covered by all courses but also provides for reading in cognate fields.

Opening Hours

Opening hours are subject to variation, but are always displayed at the entrance to the Library.

During vacation the opening hours are 09.30 hrs to 17.30 hrs Monday to Friday only.

Access to the Library

Each student wishing to use the Library must first complete a membership card and produce a current college identity card. All library users are required to adhere to the Library regulations, a copy of which is available on the first visit.

Library Regulations

Any reader found to be violating the terms of the Library declaration or denying the obligations which its imposes may be permanently excluded from the Library. Readers must also observe the following Library regulations:

- (i) Readers must show their College Identity Card or Library Ticket on entry to the Library. It is a breach of the Library regulations to attempt to enter any Library building by use of another reader's Identity Card or Library Ticket. Readers must show their Identity Card or Library Ticket on request to any member of the Library staff when within the Library.
- (ii) Readers, before leaving Library buildings, must present all books, bags and briefcases for inspection. No Library book may be taken out of a Library building, except a book the loan of which is permitted and which has been recorded by the Library staff as being on loan to the reader.
- (iii) Readers may not use bottles of ink in the Library.
- (iv) Silence must be observed as much as possible in all parts of the Library.
- (v) Smoking and the consumption of food and drink are forbidden in all parts of the Library open to readers.
- (vi) Readers are not allowed to bring visitors into the reading rooms.
- (vii) Readers are not permitted to reserve seats by leaving their

belongings or books on seats and desks. The Library staff may move any property left at unoccupied desks or seats except for officially reserved seats and carrels.

Senior Librarian / Leabharlannaí Sínsearach

Mary Davis BSc DipLib

Library Facilities

In order to use the Library resources most effectively, students are encouraged to consult the Library Staff, who will always welcome enquiries and requests. Arrangements may be made with the Senior Librarian for group talks to be given on various library procedures — for example the use of the author and subject catalogues.

Publications produced by the Library include a guide to 'Use of the College Library', 'Recent Additions' lists, and a list of journals taken by the Library. A comprehensive list of periodical holdings of major libraries in Ireland is available on microfiche.

The Library subscribes to various external services — for example Trinity College Information Service, The British Standards Institution, and the British Library Document Supply Centre. Those wishing to avail of any of these services should enquire from the Library Staff.

1991		TERM 1 TÉARMA 1						
Sept.	Monday 2	Commencement of Session. Meeting, College Council.						
	Tuesday 3	Commencement of apprenticeship courses except where otherwise arranged.						
	Wednesday 4	Meeting, Academic Council.						
	Monday 9	Interviews and enrolments for part-time and evening courses commence except where otherwise arranged.						
	Monday 16	Re-enrolments and commencement dates for the following wholetime courses:						
		Course Ref.	Year	Time				
		FT 21 (SEE)	2	09.00 hrs				
		FT 21 (SEE)	3	10.00 hrs				
		FT 21 (SEE)	4	11.00 hrs				
		DT 231 (WEET)	4 2 3 2 3	11.30 hrs				
		DT 231 (WEET)	3	12.00 hrs				
		FT 22 (WSAD)	2	14.00 hrs				
		FT 22 (WSAD)		14.45 hrs				
		FT 22 (WSAD)	4	15.30 hrs				
		DT 273 (WAS)	2P	16.00 hrs				
		DT 273 (WAS)	3P	16.00 hrs				
		DT 272 (WSO)	2	16.30 hrs				
		DT 272 (WSO)	3	16.30 hrs				
		DT 272 (WSO)	4 2	16.30 hrs				
		DT 279 (WSPH)	2	12.00 hrs				
	Tuesday 17	DT 286 (WRTT)	2	09.00 hrs				
		DT 286 (WRTT)	3	09.30 hrs				
		DT 288 (WRS)	2	10.00 hrs				
		DT 288 (WRS)	3	10.30 hrs				
		DT 289 (WRCE)	2	11.00 hrs				
		DT 255 (WLBS)	2 3 2 3 2 2 2	11.30 hrs				
		DT 266 (WMT)	2	12.00 hrs				

3

2B

3B

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12.00 hrs

14.00 hrs

14.00 hrs

14.30 hrs

14.30 hrs

14.30 hrs

15.00 hrs

15.00 hrs

16.00 hrs

16.00 hrs

DT 266 (WMT)

DT 273 (WAS)

DT 273 (WAS)

FT 23 (WBD)

FT 23 (WBD)

FT 23 (WBD)

DT 214 (WML)

DT 214 (WML)

DT 273 (WAS)

DT 273 (WAS)

		DT 200 (WBT)	2	16.30 hrs				
		DT 200 (WBT)	3	16.30 hrs				
		DT 215 (WBS)	4	17.00 hrs				
		DT 215 (WBS)	5	17.00 hrs				
	Monday 23	Part-time and evening classes commence except where otherwise arranged. Enrolments and commencement dates for the following (First Year) wholetime courses:						
		Course Ref.		Time				
		FT 21 (SEE)		09.30 hrs				
		DT 231 (WEET)		10.30 hrs				
		DT 266 (WMT)		11.15 hrs				
		DT 273 (WAS)		14.30 hrs				
		DT 255 (WLBS)		15.15 hrs				
		DT 299 (WSIC)		16.30 hrs				
	Tuesday 24	FT 22 (WSAD)		09.15 hrs				
	Tuesday 24	DT 272 (WSO)		10.30 hrs				
		DT 214 (WML)		11.00 hrs				
		DT 200 (WBT)		11.45 hrs				
		DT 287 (WRTT/WRS))	14.00 hrs				
		DT 289 (WRCE)		15.00 hrs				
		FT 23 (WBD)		16.15 hrs				
	Friday 27	DT 213 (WSFS)		11.00 hrs				
	Filday 27	DT 244 (ESED)		12.00 hrs				
		DT 279 (WSPH)		14.30 hrs				
Oat	Monday 7	Meeting, College Coun-	cil					
Oct.		Meeting, Academic Con						
	Wednesday 9							
	Friday 11	The latest date for admission of students to classes commencing in the first term is						
		Saturday 12th October, 1991. Only in exceptional circumstances will applicants be						
		admitted after that date and a late entry fee will be payable (for session 1991/92 this fee is						
		£33). Under no circumstances will such applicants be admitted after 31st December 1991.						
	Saturday 19	Conferring Ceremony for 1991 Graduates in St. Patrick's Cathedral.						
Nov.	Monday 4	Meeting, College Coun-	cil.					
	Wednesday 6	Meeting, Academic Council.						
Dec.	Monday 2	Meeting, College Coun-						
		Meeting, Academic Con						
	Wednesday 4			rm /				
	Friday 20	Final class meeting of first term.						
1992		TERM 2 TÉARMA	A 2					
Jan.	Tuesday 7	All Classes resume.						
J								

	Monday 13 Wednesday 15	Meeting, College Council. Meeting, Academic Council.
Feb.	Saturday 1 Monday 3 Wednesday 5 Friday 14	Closing date for applications to all wholetime degree courses through the CAO for 1992/93. Meeting, College Council. Meeting, Academic Council. Closing date for applications for College Summer 1992 Examinations.
March	Monday 2 Wednesday 4 Friday 20	Meeting, College Council. Meeting, Academic Council. Final late closing date for applications for College Summer 1992 Examinations.
April	Monday 6 Wednesday 8 Tuesday 14	Meeting, College Council. Meeting, Academic Council. Final Class meeting of second term.
		TERM 3 TÉARMA 3
	Monday 27	All Classes resume.
May	Monday 4 Wednesday 6 Monday 11 Monday 25	Meeting, College Council. Meeting, Academic Council. Commencement of Summer 1992 Examination programme except where otherwise arranged. Meeting, College Council.
June	Wednesday 3 Friday 19 Wednesday 24	Meeting, Academic Council. All classes terminate except where otherwise arranged. Meeting, Academic Council.
July	Monday 6	Meeting, College Council.
Aug.	Wednesday 26	Commencement of College Supplemental 1992 Examinations Programme except where otherwise arranged.

Block Release Dates for Engineering Trades: (Provisional)

Term 1: 1991 Monday 30th September - Friday 20th December

Term 2: 1992 Tuesday 7th January - Friday 20th March

Term 3: 1992 Monday 7th April - Friday 19th June

Classes will be closed on Public holidays during the session (viz. 28 October, 17 March, 1 June) and on Church Holidays except where otherwise arranged.

NOTE: This Almanac may be subject to alteration during the session.

BUÍOCHAS

The College Council, staff and students of the College greatly appreciate the financial support and general sponsorship afforded by our friends in business, industry and the professions during the past year.

AGB Scientific Ltd Agfa (Ireland) plc

Allied Irish Banks plc

Ambassade de France en Irlande Service Culturel

Andrews Graphics

Association of Physics Technicians

Association of Supervisory and Executive Engineers

Bank of Ireland plc

Bolands Ltd Bord na Móna

B.M. Burke Ltd

CARA Computer Systems Ltd

Cardiac Services Ltd

Chambers Engineering Ltd

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Construction Industry Federation

Consumer Electronics Distributors' Association

Crest Foods Ltd

Data Micrographics Ltd

Electrical Contractors' Association

Electricity Supply Board

Eolas - The Irish Science and Technology Agency

Ericsson Business Communications Ltd

Gallery of Photography, Dublin

Goethe-Institut, Dublin

His Excellency the Spanish Ambassador

IBM (Ireland) plc

Institute of Irish Bakers

Institution of Electrical and Electronics Incorporated

Engineers

Irish Nutrition and Dietetic Institute

Irish Professional Photographers' Association

Kodak Ireland Ltd

Lake Electronics Ltd

Loctite Ltd

W. & C. McDonnell Ltd

Medical Supply Company of Ireland

Medlabs Ltd

Mitsubishi Electric Ltd

Neltronic Ltd

Norsk Data (Ireland) Ltd Nuclear Energy Board

J.E. O'Brien Ltd Odlums Mills Ltd Opticians Board Pageboy Ltd

Quirke Laboratories

Rice-Steele Manufacturers Ltd

Siemens Ltd Sinar GmbH

Siúcra (Irish Sugar) plc

Sommerton Photo

TEAM - Aer Lingus

Telemecanique (Ireland) Ltd

Tom Chandley Ltd Wescon Europe Ltd Yeast Products Ltd



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