



Federation of Asian Chemical Societies (FACS)



## 9th Asian Chemical Congress Program(2 - 4 July 2001)

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<b>FACS Award Lecturers</b>	Chair Barry Noller
Monday 2 July 14.00 - 15.00 (Great Hall)	Foundation Lectureship (2001 Analytical Chemistry)  Professor Paul Haddad (Australia) "Separation of Inorganic Ions using Capillary Electrochromatography"
Monday 2 July 16.45 - 17.45 (Great Hall)	Distinguished Contribution to Economic Development  Dr. Jong-Kee Yeo (Korea) "A Challenge: Restructuring a Chemical company via R and D"
Tuesday 3 July 14.00 - 15.00 (Great Hall)	Distinguished Young Chemists Award (2001 Organic Chemistry)  Professor Margaret Brimble (New Zealand) "Synthetic studies towards natural products containing bis-spiroacetals"
<b>Session themes</b>	5 Monday afternoon and 7 Tuesday afternoon
<b>Session A Chemistry and Community</b>	Monday (4 papers) and Tuesday (7 papers)
Coordinators: Bob Bucat, Charles Fogliani, Cristina Padolina, Masato Ito	
<b>Monday</b> (Great Hall)	Chair Bob Bucat

OFA 1 15.20 - 15.40	Professor John Bremner (Australia) "Trends in regional chemistry research training: Some directions for the future"
OFA 2 15.40 - 16.00	Prof J N Oleap Fernando (Sri Lanka) "Enhanced multifarious tertiary educational opportunities in the chemical sciences through Sri Lanka's (new) college of chemical sciences"
OFA 3 16.00 - 16.20	Dr Igor Novak (Singapore) "Things you always wanted to know about Chemistry"
OFA 4 16.20 - 16.40	Charles Fogliani (Australia) "The Australian National Chemistry Quiz: A Means of Promoting Chemistry in Asia"
<b>Tuesday (Great Hall)</b>	Chair Masato Ito
OFA 5 & OFA 6 15.20 -15.40 and 15.40 - 16.00	Professor Yuan T. Lee (Taiwan) (Title only) "Chemistry for a better community"
OFA 7 16.00 - 16.20	Dr Tony Wright (New Zealand) Small Molecules - Large Molecules: A Major Hurdle for Many students"
OFA 8 16.20 - 16.40	Dr Assunta Cuyegkeng (Philippines) "Chemistry beyond the classroom: Linking high school chemistry with the local community"
	Chair Charles Fogliani
OFA 9 16.40 - 17.00	Dr Ting-Kueh Soon (Malaysia) "Environmental education in Malaysian schools : New approaches and strategies"
OFA 10 17.00 - 17.20	Dr M Camacho (Puerto Rico) "Classification of chemical reactions by science majors"
OFA 11 17.20 - 17.40	Prof MM Ito (Japan) "International Chemistry Olympiad : A survey on the circumstances of its participant countries"
OFA 12 17.40 - 18.00	Pascal Mimero (France) "The European Chemistry Thematic Network (ECTN) over 100 chemistry departments from 30 countries"
<b>Session B Inorganic Chemistry</b>	Monday (4 papers) and Tuesday (8 papers)
<b>Monday (M1/M2)</b>	Chair John Webb

OFB1 15.20 - 15.40	K Matsumoto (Japan) "Fluorescent lanthanoid chelates as labels for biotechnology"
OFB 2 15.40 - 16.00	Mudasir (Indonesia) "DNA binding of iron(II) mixed-ligand complexes containing phen and dip ligands"
OFB 3 16.00 - 16.20	F Wimmer (Brunei) "The lipophilicity and the pharmacological properties of some neutral and charged cis-platinum(II) complexes"
OFB 4 16.20 - 16.40	V P Singh (Botswana) "Synthetic, structural and biocidal aspects of new boron complexes derived from biologically active ligands"
<b>Tuesday (M2)</b> (No Powerpoint)	Chair Masaaki Tabata
OFB 5 15.20 - 15.40	Y-C Jiang (Taiwan) "Synthesis and Characterization of organically templated iron fluorophosphates and fluoroarsenates"
OFB 6 15.40 - 16.00	Alex McAuley (Canada) "Macrotricyclic complexes ; Synthesis and reactivity"
OFB 7 16.00 - 16.20	Wang, S-L (Taiwan) " Novel metal gallium phosphates containing nano-sized channels"
OFB 8 16.20 - 16.40	T Yatabe (Japan) " Sigma -pi conjugated liquid crystals"
	Chair Franz Wimmer
OFB 9 16.40 - 17.00	SB Jonnalagadda (South Africa) " Studies on uncatalysed and ruthenium catalysed reaction between methylene violet and acidic chlorite-Kinetics and analytical application"
OFB 10 17.00 - 17.20	R Karvembu (India) "Thiobis( $\beta$ -diketonato) bridged binuclear ruthenium(III) complexes" (India)
OFB 11 17.20 - 17.40	D Steinborn (Germany) "Platinum complexes with bioligands: from the hydrated proton $[H_13O_6]^+$ to carbohydrate complexes of platinum (IV)"
OFB 12 17.40 - 18.00	S Lorenzo (Australia) "The crystallisation of larger sized cucurbiturils with inorganic ions"

<b>Session C Instrumental Chemistry</b>	Monday (4 papers) and Tuesday (7 papers)
Coordinators: John Webb, Philip Marriott, Tabata Masaaki, H K Lee, Yateman Arryanto	
<b>Monday (M3)</b>	Chair Philip Marriott
OFC1 15.20 - 15.40	C A Binag (Philippines) "Electrochemistry of new conducting polyanilino ethanethiols"
OFC2 15.40 - 16.00	R A M V Vergara (Philippines) "Electrochemical behavior of poly (3-methylthiophene) modified electrode and determination of dopamine"
OFC3 16.00 - 16.20	T Nyokong (South Africa) "Development of electrochemical sensors based on phthalocyanine catalysts"
OFC4 16.20 - 16.40	S Kokot (Australia) "Chemometrics an indispensable tool at the core of analytical chemistry"
<b>Tuesday (M3)</b>	Chair Christina Binag
OFC5 15.20 - 15.40	Professor HK Lee (Singapore) "Miniaturized extraction techniques for environmental analysis" (Invited)
OFC6 15.40 - 16.00	Dr Rick Parry (USA) "Rapid characterization of food and beverage product quality using rapid gas chromatography techniques with time-of-flight mass spectrometry"
OFC7 16.00 - 16.20	PH Petsul (PNG) "The development of an on-chip micro flow injection analysis of nitrite and nitrate with a cadmium reductor"
	Chair HK Lee
OFC8 16.20 - 16.40	Prof P Marriott (Australia) "Fundamental operating performance and applications of comprehensive two-dimensional gas chromatography"
OFC9 16.40 - 17.00	M A Abaya-Perez (Philippines) "A polypyrrole-based pH transducer characterized by flow injection analysis"

OFC10 17.00 - 17.20	Prof F Dayrit (Philippines) "Application of thermal desorption-gas chromatography as a quality assurance method for medicinal plants"
OFC11 17.20 - 17.40	B J V Tongol (Philippines) "Carbon dioxide sensor based on a pH sensitive polypyrrole"
<b>Session D Natural Products</b>	Monday (4 papers) and Tuesday (8 papers)
Coordinators: Peter Waterman, Stephen Pyne, Iqbal Choudhary	
<b>Monday (P1/P2)</b>	Chair Iqbal Choudhary
OFD 1 15.20 - 15.40	Dr Maribel Nonato (Philippines) "A new secondary amines, the predicted biogenetic precursor of the Pandanus alkaloids from Pandanus amaryllifolius Roxb."
OFD 2 15.40 - 16.00	Professor Junichi Kobayashi (Japan) "Antitumor macrolides from marine dinoflagellates"
OFD 3 16.00 - 16.20	Prof M Mosihuzzaman (Bangladesh) "Antidiabetic agents from some Bangladeshi plants"
OFD 4 16.20 - 16.40	Prof S Sotheeswaran (Fiji) "Phytomedicines from the South Pacific"
<b>Tuesday (P2)</b> (No Powerpoint)	Chair Stephen Pyne
OFD 5 15.20 - 15.40	Professor B Abegaz (Botswana) "Traded plants of Africa: Sources of novel and bio-active natural products"
OFD 6 15.40 - 16.00	Professor Iqbal Choudhary (Pakistan) "Exciting new discoveries in natural chemistry"
OFD 7 16.00 - 16.20	Prof N Nahar (Bangladesh) "Some novel anticancer agents from Bangladeshi plants"
OFD 8 16.20 - 16.40	RA Barrow (Australia) "In the footsteps of Florey: Utilising cultured microfungi in the search for new antibiotics"
	Chair Maribel Nonato
OFD 9 16.40 - 17.00	Unang Supratman (Indonesia) "Insecticidal bufadienolides from Indonesian Kalanchoe plants"

OFD 10 17.00 - 17.20	Professor Y Thebtaranonth (Thailand) "C-16 Artemisin derivatives and their antimalarial and cytotoxic activities ; syntheses of Artemisinin monomers, dimers, trimers and tetramers by nucleophilic additions to Artemisitene"
OFD 11 17.20 - 17.40	Prof S Pyne (Australia) "Progress towards the synthesis of bioactive alkaloids using Lewis acid and metal catalysed reactions"
OFD 12	
<b>Session E Green Chemistry and Cleaner Production</b>	Monday (4 papers)
Coordinators: Chris Strauss, Jyh-Shing Yang	
<b>Monday (M4)</b>	Chair Chris Strauss
OFE 1 15.20 - 15.40	Dr T Deguchi (Japan) "Next-generation chemical process development in Japan as a crucial part of green sustainable chemistry"
OFE 2 15.40 - 16.00	Yateman Arryanto (Indonesia) "The synthesis and characterisation of hydrocracking catalyst materials from fly ash"
OFE 3 16.00 - 16.20	J Mohammade-Rovshandeh (Iran) "Thermoplasticization of poplar wood by double derivatization"
OFE 4 16.20 - 16.40	Janet Scott (Australia) "Understanding solvent-free reactions"
<b>Session F Chemical Information Networks</b>	Tuesday ( 7 papers)
Coordinators: David Winkler, Xiaoxia Li	
<b>Tuesday (M4)</b>	Chair David Winkler
OFF 1 15.20 - 15.40	Xiaoxia Li (China) "Concept-based searching in a web guide for internet chemical resources"
OFF 2 15.40 - 16.00	Yuan (China) "From 3D-QSAR to Synthesis /design: Bioactive compounds discovery via computer-aided techniques "

OFF 3 16.00 - 16.20	Vlad Bajic (Singapore) "A neural network model for locating promoters in anonymous DNA of vertebrates"
OFF 4 16.20 - 16.40	Jason Cole (UK) "Recent developments to GOLD : A program for protein-ligand docking"
	Chair Xiaoxia Li
OFF 5 16.40 - 17.00	Warr (UK) "Integrated life science informatics"
OFF 6 17.00 - 17.20	David Winkler (Australia) "QSAR - Keeping it simple"
OFF 7 17.20 - 17.40	Burden (Australia) "QSAR - Making it robust"
<b>Session G Advances in Physical and Theoretical Chemistry</b>	Tuesday (8 papers)
Coordinators: Brian Yates, Alan Knight, Wong Ming Wah	
<b>Tuesday (P1)</b>	Chair Ming Wah Wong
OFG 1 15.20 - 15.40	Professor Denis Evans (Australia) "The Fluctuation Theorem"
OFG 2 15.40 - 16.00	Professor John White (Australia) "Template - induced crystal growth"
OFG 3 16.00 - 16.20	Dr Suda Kiatkamjornwong (Thailand) "Poly (methyl methacrylate-co-methacrylic acid) for UV-sensitive aqueous-based developable offset plate"
OFG 4 16.20 - 16.40	Dr H. Mohd. Ghazaly (Malaysia) "Physical properties of n-butyl methacrylate copolymer latex films derived from crosslinked latex polymers"
	Chair Denis Evans
OFG 5 16.40 - 17.00	Meredith Jordan (Australia) "Vibrational effects on the NMR properties of an N-H-N hydrogen bond"
OFG 6 17.00 - 17.20	Dylan Jayatilaka (Australia) "Experimental Wave Functions"
OFG 7 17.20 - 17.40	Dr T Arakawa (Japan) "Determination of transition metal ions based on quenching of the rare earth luminescence"
OFG 8 17.40 - 18.00	Prof Ming Wah Wong (Singapore) "Effects of constituent and medium on the structures and

	stabilities of ketene-pyridine ylides: A theoretical study"
<b>Session H Environmental Chemistry</b>	Tuesday (7 papers)
Coordinators: Ross Sadler, Mohinder Singh	
<b>Tuesday (M1)</b>	Chair Ross Sadler
OFH 1 15.20 - 15.40	Dr JAJ Perera (Sri Lanka) "Solving environmental problems in the Asia-Pacific region though enhanced knowledge of environmental chemistry"
OFH 2 15.40 - 16.00	Dr Ravi Naidu (Australia) "Current and future issues relating to contaminants in the Asia- Pacific region"
OFH 3 16.00 - 16.20	S Lau (Malaysia) "Heavy metal contamination in Tasik Biru, Bau, Sarawak, Malaysia"
OFH 4 16.20 - 16.40	Prof Des Connell (Australia) "Effects of banning persistent organochlorine pesticides in the levels in the Australian marine environment"
	Chair Des Connell
OFH 5 16.40 - 17.00	Dr Jae Ryoung (Korea) "Fast and Convenient silyl derivitization of phenolic pollutants for simultaneous GC/MS determination"
OFH 6 17.00 - 17.20	Dr R Sadler (Australia) "Modelling soil transport of PAHs using molecular descriptors"
OFH 7 17.20 - 17.40	Dr N Sethunathan (India) "Rice ecosystem: An excellent medium for detoxification of pesticides"