

Wright State University

CORE Scholar

BITs and PCs Newsletter

College of Engineering & Computer Science

9-1-1991

**Wright State University College of Engineering and Computer
Science Bits and PCs newsletter, Volume 7, Number 6, September
1991**

Wright State University College of Engineering and Computer Science

Follow this and additional works at: https://corescholar.libraries.wright.edu/bits_pcs

Repository Citation

Wright State University College of Engineering and Computer Science (1991). *Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 7, Number 6, September 1991*. Dayton, Ohio: Wright State University College of Engineering and Computer Science.

This Newsletter is brought to you for free and open access by the College of Engineering & Computer Science at CORE Scholar. It has been accepted for inclusion in BITs and PCs Newsletter by an authorized administrator of CORE Scholar. For more information, please contact library-corescholar@wright.edu.



BITS & PCS

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Sept. 1991

Wright State University Dayton, Ohio 45435

Vol. 7 No. 6

This newsletter is a monthly publication to inform students of the activities, news, opportunities and changes occurring in the College of Engineering and Computer Science. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities. The newsletter is published by the College of Engineering and Computer Science and distributed to all engineering and computer science majors through their student mailboxes. Submit items to be included in the October issue to the College of Engineering and Computer Science office, 130 Engineering and Mathematical Science Building, by October 1. The next issue will be published October 25. Welcome back to a new and exciting academic year. Keep in touch through your college newsletter. We welcome YOUR bits and pieces.

IT'S A FACT

Construction of the \$20 million Fritz and Dolores Russ Engineering Center is proceeding on schedule. This building will provide 173,000 square feet of space for the College of Engineering and Computer Science. The projected completion date is February 1992.

LOOK UP

We hope you noticed our "New Look." The college has updated the masthead of our monthly news publication, Bits and PCs. The new heading was designed by Dr. Leo Winkelstein, Department of Computer Science and Engineering. We appreciate his help in keeping our presses rolling.

COLLEGE MOURNS DEATH OF PHYSICS CHAIR, DR. MERRILL ANDREWS

Dr. Merrill Andrews, Chair of the Department of Physics, died unexpectedly on August 22 at the age of 52. Dr. Andrews joined WSU in 1970, and was named director of the WSU Engineering-Physics Degree Program in 1974.

Prior to coming here, he was an assistant professor of physics at Cornell University and had been a teaching and research assistant at the Massachusetts Institute of Technology. He earned his doctoral degree from MIT in 1967.

"Dr. Andrews was a dynamic member of the university faculty, and an outstanding contributor to the community," said Dick Rathbun, assistant dean of the College of Engineering and Computer Science. "He always had time for everyone who needed his advice. There is no question that he will be missed by the university, the college, and his community."

SAFE SCHOLARSHIP AWARDED TO ELECTRICAL ENGINEERING STUDENT

Mark Rose, Senior in the Department of Electrical Engineering, is the recipient of the 1991 SAFE Scholarship. This annual award is presented by the Wright Brothers Chapter 13 of the Survival and Flight Equipment Association. Mark will complete the requirements for a degree in electrical engineering in March 1992.

ASME SCHOLARSHIP WINNER, CATHERINE SNOW

An American Society of Mechanical Engineer's Scholarship was awarded to Catherine Snow, a senior in the Department of Mechanical and Materials Engineering. This award is given for outstanding scholastic achievement.

It's a Date !

- | | | |
|---------|---|---|
| Oct. 3 | - | What is Grad School
Teleconference |
| Oct. 18 | - | Palace Knight
2-5:00 p.m.
155 University Center |
| Nov. 1 | - | Club Fair |
| Nov. 2 | - | Technical Fair
Main Gym, P.E. Bldg.
Contact Career Services
for information. |
| Nov. 9 | - | Senior Registration
Begins |
| Nov. 11 | - | Veterans Day -
University Closed |
| Nov. 13 | - | Junior Registration
Begins |
| Nov. 16 | - | Sophomore Registration
Begins |
| Nov. 23 | - | Freshman Registration
Begins |
| Nov. 28 | - | Thanksgiving Holiday |
| Nov. 29 | - | No classes |
| Dec. 6 | - | Order of the Engineer
Ring Ceremony |

NATIONAL ENGINEERS WEEK

February 16, 1992, marks the beginning of National Engineers Week. During this week-long celebration, we salute the engineering profession and open our doors to the community.

We will be sponsoring our annual "Open House," the JETS/TEAMS Competition for area high school students, the Rubberband-Powered Airplane Contest, and many other events designed to promote an interest in engineering at Wright State University. Junior and senior engineering and computer science students who are interested in volunteering to help with these activities should contact Teri Shepherd in the college office (130 EMS), or call 873-2403.

VIDEO CONFERENCE

The college of Engineering and Computer Science presents an interactive Video Conference titled "What is Graduate School & How Do You Select One?" This is a live, video program transmitted by satellite where participants can view the presentation, engage in local discussions, and call in questions to presenters "on the air." This will be held on Thursday, October 3, 1991 from 1:00 to 2:00 p.m. at Wright State University's Television Center.

Undergraduates in science and engineering, department chairs, faculty advisors, university administrators, career counselors, recruiting and admissions professionals, high school counselors and science/math teachers are encouraged to attend.

You will have the opportunity to learn about graduate education from current graduate students, including (1) what graduate school is and how it differs from the undergraduate experience; and (2) how to select the graduate program best suited to your needs.

Call the Conference Center at 513/873-2911 to register for this FREE video conference.

For More Information: Contact WSU's College of Engineering and Computer Science at 513/873-2403.

CLUB FAIR '91 GET INVOLVED

The college is sponsoring our annual Club Fair on Friday, November 1, 10:00 a.m. to 3:00 p.m. in the lobby of the EMS Building. You will have an opportunity to learn about each of our 13 student organizations by visiting their display areas.

Our college clubs/societies include:

American Institute for Aeronautics and Astronautics (AIAA)

American Society of Mechanical Engineers (ASME)

American Society of Metals International

Association for Computing Machinery (ACM)

Biomedical Engineering Society (BMES)

Human Factors Engineering Society (HFS)

Institute of Electrical and Electronics Engineers (IEEE)

Institute of Electrical and Electronics Engineers Computer Society

National Society of Black Engineers (NSBE)

Ohio Society of Professional Engineers (OSPE)

Society of Automotive Engineers (SAE)

Society of Women Engineers (SWE)

Tau Beta Pi (Ohio Mu Chapter) Honor Society

In addition, representatives from Student Government, the Society of American Military Engineers (SAME), and The Amateur Radio Club will be on hand.

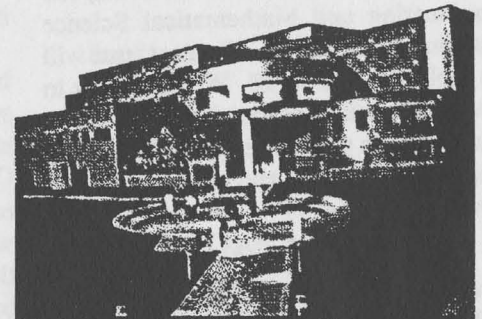
Once again the clubs will be competing for cash prizes, and there will be refreshments and door prizes. All students who join a club during the fair will be eligible to win a bookstore gift certificate in a drawing to be held after the fair. Check your Allyn Hall mailbox soon for detailed information. Don't miss out!

UNDERGRADUATE STUDENT DIES IN ACCIDENT

Darrell L. Robertson, a junior in the Department of Computer Science and Engineering, died in June of injuries sustained in an accident at Kings Island. Darrell was a computer science major from Hamilton, Ohio. He entered Wright State University as a freshman, and was a resident of Hamilton Hall. Darrell was held in high regard by his classmates and teachers, and he will be missed by the faculty, staff, and students of the College of Engineering and Computer Science.

COURSE OFFERED IN PERSONAL FINANCIAL PLANNING

The College of Business is offering an elective (Fin 205) that provides information on Personal Financial Planning. The objective of this course is to provide knowledge that will help students effectively manage their personal financial affairs, and includes the following topics: family budgeting, installment buying, insurance, home ownership, investing in securities, taxes, retirement planning, and estate planning.



Bits & PCs

College of Engineering and
Computer Science

Wright State University

Dean

Dr. James E. Brandeberry, P.E.

Editor and Staff Writer
Sharon Coates

Submit questions, articles and ideas to Editor, 130 EMS. The College of Engineering & Computer Science reserves the right to edit all material for publication.

EE GRADUATE STUDENT WINS STUDENT PAPER CONTEST

Deepak Sabharwal, graduate student in the Department of Electrical Engineering, was the winner of the 1991 Eermal "Ernie" Frazee Student Paper Contest. This contest is sponsored by the Engineers Club of Dayton. Deepak's paper entitled, "A Flexible Computer Integrated Manufacturing System for Assembly," was the winner in the graduate student paper category. It appeared in the July 1991 issue of *Dayton Engineer*. The prize was a \$200 cash award and a one-year membership to the Engineers Club of Dayton.

Dr. Kuldeep Rattan, professor in the Department of Electrical Engineering and faculty advisor for Deepak, also received a one-year membership to the Engineers Club.

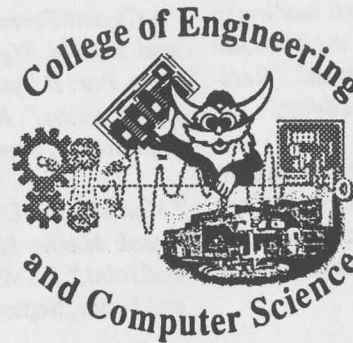
MBA FORUM SCHEDULED FOR OCTOBER

Students wishing to pursue graduate study in the field of business/management can receive information at an MBA Forum scheduled for October 4 and 5, 1991, sponsored by the University of Cincinnati. Representatives from graduate management schools across the country will be on hand. The MBA Forums are designed so that prospective MBA candidates have the opportunity to speak with graduate management school representatives and participate in three workshops for a nominal fee of \$5/day. The workshops are staffed with panelists who have expertise in the areas of admissions, the Graduate Management Admission Test (GMAT), financial aid, placement, and careers in the public and private sector. A workshop on doctoral programs is also available to students who may wish to consider teaching careers in graduate management. Exhibits and activities are scheduled at the Cincinnati Convention Center. Contact the college office, 130 EMS for a schedule of activities.

AIR FORCE HISTORICAL FOUNDATION

October 24-25 the Annual Meeting of the Air Force Historical Foundation is being held in the Air Force Museum. The Founda-

COLLEGE SHIRTS FOR SALE!



Wright State University

The all-new College of Engineering and Computer Science T-Shirts and Sweatshirts are available NOW! Contact student government representative, Bob Hale at the Student Government Office in the University Center, any engineering or computer science club representative, or stop in at the college office, 130 EMS, to order.

T-shirts are \$8 each, and sweatshirts are \$15

The design for these shirts was created specially for the College of Engineering and Computer Science by Dr. Leo Finkelstein, Department of Computer Science and Engineering.

tion is charged by the Air Force with "preserving and perpetuating" history and traditions and providing pertinent lessons learned. This is done by publishing books and papers and by professional meetings held in the United States and abroad.

The subject of the October meeting will be "History of Development and Support for Combat Air." It will be co-sponsored by the Air Force Logistics Command and features as speakers Generals Charles C. McDonald, current Commander of Air Force Logistics Command, Bernard A. Schriever, ex-Commander of Air Force Systems Command, and Mark E. Bradley, ex-Commander of the Air Materiel Command.

In addition, two panels consisting of distinguished historians, military and civilian experts, will examine the subject from pre-World War II through the recent Gulf War.

General Robert T. Marsh, ex-AFSC Commander, will chair the group on "Acquisition and Development," and ex-AFLC Vice Commander Lt. General George Rhodes will chair the panel on "Combat Support."

Registration forms to attend are available in the college office, 130 EMS. Registration fee is \$45.

DR. GUST BAMBAKIDIS NAMED INTERIM CHAIR OF PHYSICS

Dr. Gust Bambakidis, professor in the Department of Physics has been appointed Interim Chair of that department. Dr. Bambakidis came to Wright State University as an assistant professor in 1977. He earned his Ph.D. in Physics from Case Institute of Technology, Cleveland, Ohio.

Dr. Tom Listerman, Associate Professor, will be serving as Program Director of the Engineering Physics Program.

BIOMED/HUMAN FACTORS NAMES INTERIM CHAIR

Dr. Anthony Cacioppo has been named Interim Chair of the Department of Biomedical and Human Factors Engineering. Dr. Cacioppo joined the faculty at Wright State University in 1986 as professor and director of human factors engineering. Prior to coming to WSU, Dr. Cacioppo was the Chief Scientist of the Air Force Foreign Technology Division, Wright-Patterson Air Force Base, Ohio.

FACULTY FACTS

Philip C. Chen (CSE) received funding in the amount of \$26,185 from the National Science Foundation for his proposal, "Real-Time Intelligent Assembly Scheduler."

Jennie J. Gallimore (BHF) received a contract for \$7,779 from PK Vision Enterprises to perform a human factors evaluation of a new glare shield device for visual display terminals.

Fred Garber (EE) presented the paper, "Recent Advances in Automatic Target Recognition," at NAECON '91.

He also received funding in the amount of \$40,000 from the USAF Wright Laboratory for his proposal entitled "Radar Target Identification."

Wilbur Hankey (ME), P. Misra (EE), A. Shaw (EE) received an extension to the current effort on the *Inverse Method for Turbulence Modeling*. This award in the amount of \$60,000 was given by the Air Force Aero-propulsion Laboratory. The goal of the program is to develop a turbulence model for a combustor configuration with swirl.

Lang Hong (EE) presented a paper entitled "Optimal Reduced-Order Filtering," at the 1991 IEEE National Aerospace and Electronics Conference. A paper entitled, "An Optimal Reduced-order Stochastic Observer-Estimator," will appear in the IEEE Transactions on Aerospace Electronic Systems, Vol. 28, No. 4.

Junghsen Lieh (ME) published the following:

"A study of the Parametrically Excited Behavior of Passenger and Freight Railway Vehicles Using Linear Models," ASME Journal of Dynamic Systems, Measurement and Control, June, 1991.

"Semiactive Control of Vibrations in Automobiles," Proc. ASME Conference on Mechanical Vibrations and Noise, September, 1991.

"A Closed-Form Formalism for Controlled and Hybrid Rigid/Elastic Multibody Systems, Part I Formulation," ASME Design Automation Conference, September 1991.

"A Closed-Form Formalism for Controlled and Hybrid Rigid/Elastic Multibody Systems, Part II Symbolic Implementation and Applications," ASME Design Automation Conference, September 1991.

"Modeling and Dynamic Analysis of a Slider-Crank Mechanism with Flexible Coupler and Joint," ASME Conference on Vibration and Noise, September, 1991.

Alastair McAulay, Department Chair (CSE), along with co-author **J. Wang**, published an article entitled, "Spatial Light Rebroadcaster Bit-slice Word-addressable Holographic Memory," in Applied Optics, 30, 20, 2885-2889, July 1991.

Presentations at conferences with conference proceedings as follows:

"Robust Aircraft Classification using Moment Invariants, Neural Networks and Split Inversion Learning," International Joint Conference on Neural Networks, July 1991.

"Map Learning Using Associative Neural Networks," International Joint Conference on Neural Networks, July 1991. (co-authors: P. Chen and X. Xu)

"Robotic Kinematics Computations using GMDH Learning Strategy," International Joint Conference on Neural Networks, July 1991. (Co-author P. Chen)

"Optical Parallel Set of Full Adders Using Spatial Light Rebroadcasters," SPIE Optical Information and Processing Systems and Architectures II Conference, July, 1991. (co-authors: J. Wang, X. Xu, M. Zeng)

Krishna Naishadham (EE) published a paper entitled, "Measurement of Microwave Conductivity of a Polymeric Material with Potential Applications in Absorbers and Shielding," in IEEE Trans. Microwave Theory and Techniques, July 1991, pp. 1158-1164 (co-author P.K. Kadaba).

He also made the following presentations: (a) "Electromagnetic Modeling of Packaging and Discontinuity Effects in Millimeter-Wave Integrated Circuits (MMIC)," at Wright Patterson AFB, May, 1991. (b) "Dispersion in Cylindrical Conformal Antennas," at NAECON '91.

Dr. Naishadham has been awarded a Re-

search Initiation Grant of \$5,000 by the Research Council, Wright State University, for a project entitled, "Analysis of Electromagnetic Wave Phenomena in Printed Circuits."

T.K. Prasad (CSE) had the following papers published:

"On the Relationship between Parsimonious Covering and Boolean Minimization," (co-author Venu Dasigi), Proceedings of NAECON '91, May, 1991.

"An Analysis of Property-flow View vs. Individual Flow View of Inheritance" will appear in the Proceedings of ISMIS 91, October 1991.

Rai Pujara (EE) presented a paper entitled, "The Partition of Unstable Polygons of Polynomials" (co-author Naresh Shanbhag) at the 1991 American Control Conference held in June 1991 at Boston, Massachusetts. The paper has been published in the Conference Proceedings.

Blair Rowley (BHE) received a grant from the U.S. Department of Education in the amount of \$99,547 to increase the supply of qualified personnel providing rehabilitation engineering services to persons who have handicaps and who are clients of rehabilitation agencies and facilities; and to improve the skills of rehabilitation practitioners related to delivery of technology services to clients with severe disabilities.

B.A. Sheno (EE) Department Chair, co-authored a paper entitled, "A Design Methodology for Two-Dimensional Analog Filters with Linear Phase," (co-authors G. Gu, and P. Misra (EE)) which was published in the Journal of Circuits, Systems and Computers (pp. 75-92, March, 1991.)

Greg Shiu (EE) was the co-author of a paper entitled, "A Robust Light Invariant Vision System for Aircraft Refueling" which was presented at the IEEE International Conference on Robotics and Automation held in April, 1991. (Co-authors are Captain R. Bennett and Dr. M. Leahy). Dr. Shiu gave a tutorial on "Robotic Vision" and presented a paper entitled, "Locating Cylindrical Objects from Perspective Projections" at the National Aerospace Electronics Conference held in May, 1991.

Employment Opportunities

PRUDENTIAL SECURITIES

A part-time position (20 hours/week) is available at Prudential Securities in data input and processing. Contact Pat Walker at 228-2828.

SOUTHWESTERN OHIO COUNCIL FOR HIGHER EDUCATION (SOCHE)

The Student Support Program has a position open for a student interested in: Electrical Properties of High Temperature Superconductors (Physics Major). This position is available at WPAFB, Ohio. Our jobs are highly sought after, and referred to by industry as first-rate training and experience. Interested individuals call SOCHE at 513/297-3159.

PHYSICAL PLANT NEEDS HELP

The Physical Plant Department is looking for a student worker to operate a "CAD" PC. You must have some knowledge of drafting and construction. We would prefer a freshman or sophomore looking for long-term employment. Pay rate is \$4.35 an hour, or more depending on qualifications. Contact Mike Schulze at 873-4143, 059 Allyn Hall.

AIR FORCE PALACE KNIGHT

In an effort to increase the number of civilian Ph.Ds to staff it's laboratories, the U.S. Air Force has implemented an exceptional employment program called Palace Knight. This unique training and development program is a combination of paid education and work experience in research and development. Palace Knight is an accession program. Positions are normally filled through college recruitment.

Eligibility is limited to U.S. citizens able to obtain security clearances. B.S. applicants should be within six months of graduation and have applied or been accepted to an accredited university for graduate studies. Applicants with completed M.S. Degrees, or who are currently pursuing M.S. or Ph.D. studies are also eligible to apply. A 3.25 GPA in undergraduate studies is desired. Graduate record examination (GRE) results are also required.

For more information, attend the information session on October 18, 2-5:00 p.m., 155 University Center. A representative will be on hand to explain the program and answer questions.

IMPORTANT ADVISING AND REGISTRATION INFORMATION

STUDENTS TAKE NOTE!

Beginning winter quarter 1992, with a few specific course exceptions, engineering and computer science students who have been admitted to the college as degree seeking students will no longer require the signature of an advisor or department stamp to register for classes.

Students on mandatory advising, pre-engineering students, pre-computer engineering students, and pre-computer science students will still require an advisor's approval to register for classes.

Students are expected to comply with course prerequisites and may be withdrawn from any course for which the prerequisites have not been met.

Students are urged to meet with an advisor at least once a year to be certain they are using the correct program guide and are following a logical plan to complete the degree requirements.

For more information, contact your advisor, or your department office.

Club News

SOCIETY OF WOMEN ENGINEERS (SWE)

The following people will serve as officers for the Society of Women in Engineering for the 1991-92 school year.

President	Terri Parsell
Vice President	Andrea Feldmann
Treasurer	Kathy Roethler
Corresponding Sec.	Dawn Scopel
Recording Sec.	Carmen Baker
Publicity Officer	Corrina Monett

These officers and the remaining SWE members will be busy the next few months preparing for the 1991 SWE Region G Conference which will be held November 1-3.

The conference will include both the professional and student members from Ohio, West Virginia, Western Pennsylvania and Kentucky. A variety of activities will take place that weekend including the Technical Career Fair which will be held on Saturday.

Contact our club through the College office, room 130 EMS, or one of the officers listed above, to participate in the events.

HUMAN FACTORS SOCIETY

The student chapter of the Human Factors Society welcomes all new members. Applications for membership can be picked up at the EMS Building on the HFS Bulletin Board, or by contacting Susan Douglas at 439-5755.

Activities planned for this fall include a tour of the Wright-Patterson AFB Labs, a winter break trip, guest speakers and participation at October Daze, October 4.

We will also be co-hosting, with the University of Dayton Chapter, student visitors from Virginia Tech., University of Illinois, and Ohio State.

Activities include a social evening on Friday, October 4, and a tour of the Air Force Museum on Saturday, October 5.

SCHOLARSHIPS AND FELLOWSHIPS

SECOND ANNUAL ARGONNE SYMPOSIUM FOR UNDERGRADUATES IN SCIENCE, ENGINEERING AND MATHEMATICS

CALL FOR PAPERS

The Second Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics invites undergraduate authors to submit papers on their research. The symposium will be held November 8 and 9, 1991, at Argonne National Laboratory and will include sessions on biology, chemistry, computer science, engineering, mathematics and physics. Authors will give oral presentations for which each will be allotted twenty minutes, including three to five minutes for questions. There will be a \$15 registration fee for presenters.

Abstracts must be received at Argonne no later than October 1.

For detailed information on abstracts or registration information contact Miriam Weiss, Division of Education Programs, Argonne National Laboratory, Argonne, Illinois, 60439, telephone (708)972-3365.

Information also available in college office, 130 EMS.

NATIONAL SCIENCE FOUNDATION (NSF) GRADUATE RESEARCH FELLOWSHIPS

The NSF 1992 Graduate Research Fellowships have been announced. These fall into two categories:

1. Minority Graduate Fellowships (with the special component Women in Engineering)

Program: Three-year graduate fellowships in science and engineering fields offered by the NSF.

Eligibility Requirements:

Applicants must be U.S. citizens or nationals, or permanent resident aliens of the U.S., who are members of one of the following ethnic minority groups: American Indian, Black/African American, Hispanic, Native Alaskan (Eskimo or Aleut) or Native Pacific Islander (Polynesian or Micronesian).

Fellowships are awarded for study

and research leading to master's or doctoral degrees in the mathematical, physical, biological, engineering, and behavioral and social sciences, including the history and philosophy of science, and to research-based Ph.Ds in science education.

Those eligible to apply in the fall of 1991 are college seniors, first and second-year graduate students, and others who have completed a limited amount of graduate study in science and engineering.

Women in Engineering: Additional awards will be offered to encourage women to undertake graduate study in engineering fields. Women in Engineering eligibility is the same as for other fields in the Minority Graduate Fellowship Program.

2. Graduate Fellowships (with the special component Women in Engineering:

Eligibility Requirements:

Applicants must be U.S. citizens or nationals, or permanent resident aliens of the U.S.

Fellowships are awarded for study and research leading to master's or doctoral degrees in the mathematical, physical, biological, engineering, and behavioral and social sciences, including the history and philosophy of science, and to research-based Ph.Ds in science education.

Those eligible to apply in the Fall of 1991 are college seniors, first-year graduate students, and others who have completed a limited amount of graduate study in science and engineering.

Women in Engineering: Additional awards will be offered to encourage women to undertake graduate study in engineering fields; second-year graduate students are eligible.

Deadline for entering: November 8, 1991. For information and application materials write to: The Fellowship Office

National Research Council
2101 Constitution Avenue
Washington, D.C. 20418
Telephone (202)334-2872

OHIO CONTRACTORS ASSOCIATION (OCA) HALL OF FAME SCHOLARSHIP PROGRAM

The Ohio Contractors Association will again award ten \$1,000 scholarship awards to stu-

dents who are enrolled in civil engineering construction technology and related curriculum programs in Ohio colleges and universities.

Eligible students must be citizens of the U.S. and be a third, fourth, or fifth year student in a bachelor of science degree program. Preference is given to Ohio residents and to those students who have shown an interest in the Ohio heavy/highway or utilities construction field.

Contact the college office, 130 EMS, for application information.

Deadline is November 4, 1991.

US DEPARTMENT OF ENERGY, SCIENCE & ENGINEERING RESEARCH SEMESTER (SERS)

Off-campus Academic Term Research for Undergraduates

Opportunities include: Biology, Chemistry, Nuclear Medicine, Materials Science, Engineering, Geoscience, Physics, Mathematics, Computer Science, Environmental Science, Energy Systems, Waste Technology, and related disciplines.

Program Activities include: Hands-on Research, Advanced Instrumentation Training, Seminars/Academic Courses at six DOE National Research Laboratories

Application Deadline is October 20, 1991 for the Spring 1992 Program, and March 15, 1992 for the Fall 1992 Program

Eligibility: Enrollment in a U.S. college or university; Completion of sophomore year; U.S. Citizen or permanent resident alien; Overall grade point average of 3.0 or higher.

Note: A limited number of positions will be available to graduating seniors.

Support includes stipend, housing, travel reimbursement.

For application information contact the college office, 130 EMS.

**NATIONAL CONSORTIUM FOR
GRADUATE DEGREES FOR
MINORITIES IN
ENGINEERING AND
SCIENCE, INC. (GEM)**

GEM provides graduate fellowships that include tuition and fees at 70 colleges and universities, a paid summer internship at the nation's top research and development laboratories, and a yearly stipend. The M.S. fellowship has a \$6,000 stipend while the Ph.D. fellowship provides a \$12,000 stipend. In addition, the summer internships pay between \$2,000 and \$3,500 per month.

The Consortium is targeting under-represented populations in engineering and the natural sciences. These populations

are defined as American Indians, Black Americans, Mexican Americans, and Puerto Ricans. Deadline for filing is December 1, 1991.

If you would like additional information on these fellowships, contact the college office, 130 EMS

**GEM Ph.D. ENGINEERING
PROGRAM**

A fellowship program for minorities to obtain doctoral degrees in engineering provides paid tuition and fees, annual stipend, and mentors on campus.

Eligible students would be current M.S. students or individuals with an M.S. degree in an engineering discipline, who

represent one of the following minority groups: American Indian, Black American, Mexican American, or Puerto Rican. Academic record must indicate the ability to complete doctoral studies in an engineering field. Acceptance to a doctoral program in an engineering discipline at a university which is a member of GEM's engineering Ph.D. group along with a willingness to accept a teaching/research assistantship after the first year is required.

For application information write:

GEM Ph.D. Program in Engineering
Central Office
P.O. Box 537
Notre Dame, IN 46556

Application deadline is December 1, 1991.

CAREER SERVICES

COOPERATIVE EDUCATION

Are you in need of a job? Are you bored with the duties of your present position? If so, then consider the COOPERATIVE EDUCATION PROGRAM. You will obtain employment in a field related to your major and gain career experience at the same time. You could work for one of the following employers and have approximately a 96% chance of being hired upon graduation.*

- Applied Sciences
- A.O. Smith
- Armco
- Cincinnati Milacron
- Cooper Power Tool
- DP&L
- Digital Technology
- Federal Aviation Administration
- General Electric
- General Motors
- General Research
- Heavy Engineering
- Martin Marietta
- Mead Data Central
- Modern Industrial Plastics
- Monarch Marking
- Montgomery County Solid Waste Management
- NCR
- RTA
- U.S. Department of Energy
- Westinghouse
- WPAFB

Wright State students are co-oping with these employers and gaining an edge in the job market right now! Salaries range from \$6.00 to \$12.00/hour and the learning experience is invaluable.

If you have completed the first year of your curriculum and have a 2.5 cumulative GPA, sign up for a Group Orientation Workshop at:

Career Services
126 Student Services
873-3166

*Percentage based on 1990-91 technical graduates for whom information was available.

Fall Workshop Schedule 1991

Resume Expert & Placement Registration
Leisa Speroff and Cyndie Majher
005 Library Annex
(Participants must bring registration materials)

- 9/9 Monday 1:00 - 2:30 p.m.
- 9/11 Wednesday 10:30 a.m. - 12:00 p.m.
- 9/18 Wednesday 9:00 - 10:30 a.m.
- 9/19 Thursday 4:00 - 5:30 p.m.
- 9/23 Monday 5:00 - 6:30 p.m.
- 9/27 Friday 11:00 a.m. - 12:30 p.m.

- 10/2 Wednesday 10:00 - 11:30 a.m.
- 10/3 Thursday 5:00 - 6:30 p.m.
- 10/8 Tuesday 12:30 - 2:00 p.m.
- 10/11 Friday 10:00 - 11:30 a.m.
- 10/15 Tuesday 3:30 - 5:00 p.m.
- 10/16 Wednesday 10:30 a.m. - 12:00 p.m.
- 10/21 Monday 5:30 - 7:00 p.m.
- 10/24 Thursday 4:00 - 5:30 p.m.
- 10/29 Tuesday 3:00 - 4:30 p.m.

The On-Campus Interview:
How to Successfully Compete
Leisa Speroff, 10 - 11:00 a.m.
Career Services

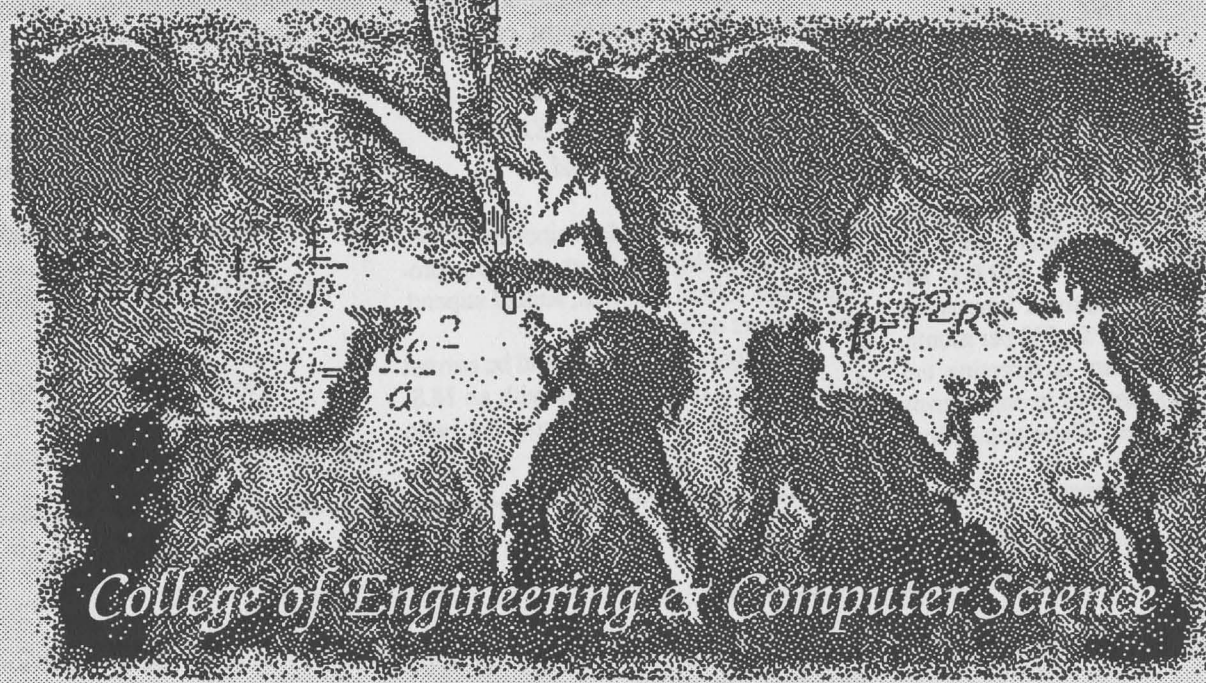
- 10/1 Tuesday
- 10/10 Thursday
- 10/18 Friday
- 10/23 Wednesday

Interviewing Techniques
Leisa Speroff, 10 - 11:00 a.m.
Career Services

- 10/4 Friday
- 10/9 Wednesday
- 10/17 Thursday
- 10/22 Tuesday
- 10/30 Wednesday

Please sign up at the reception desk in 126 SSW or telephone 873-2556
Walk-in consultation hours Tuesday through Friday, 2:00 - 4:00 p.m.

Club Fair '91



College of Engineering & Computer Science

Wright State University

You're invited to meet with representatives from our clubs

- ✓ Find Out What's Happening
- ✓ Checkout the displays
- ✓ Enjoy refreshments
- ✓ Join a club and become eligible for a door prize
(drawing after the fair - you need not be present to win)

Friday, November 1, 10 A.M. - 3 P.M., EMS Lobby

Amateur Radio Club

American Institute for Aeronautics and Astronautics

American Society of Mechanical Engineers

American Society of Metals International

Association for Computing Machinery

Biomedical Engineering Society

Human Factors Engineering Society

Institute of Electrical and Electronics Engineers

Institute of Electrical and Electronics Engineers Computer Society

National Society of Black Engineers

Ohio Society of Professional Engineers

Society of American Military Engineers

Society of Automotive Engineers

Society of Women Engineers

Student Government

Tau Beta Pi

