

National Engineers Week Schedule

February 16-20, 2004

Penny Wars - donation jars located in all department offices and in 405 Russ

(benefits CECS Scholarships)

Monday, February 16th

1:00 PM - 3:00 PM

Mocktails Competition (Russ Lobby)

1:00 PM - 3:00 PM

Club Fair (Russ Lobby)

1:00 PM - 5:00 PM

CECS Open House (Russ Lobby)

Tuesday, February 17th

Wednesday, February 18th

12:00 PM - 1:00 PM

Nerd Fashion Show and Introduction of Mr. & Miss Engineer Nominees (Russ Lobby)

1:00 PM

Tau Beta Pi Eating Contest (Russ Lobby)

8:30 PM

WEC Movie Night (145 Russ)

Thursday, February 19th

Friday, February 20th

8:00 AM - 9:00 AM

Breakfast with the Dean - WEC (405 Russ)

8:00 PM

E-Week Dance and Announcement of Mr. and Miss Engineer (E160 Student Union)

Plans are close to being complete for this year's National Engineers Week. It will be held



February 16-20. National Engineers Week is an annual celebration involving thousands of engineers, teachers, students, and leaders in government and industry. Founded in 1951 by the National Society of Professional Engineers, its goal is to increase public awareness and appreciation for engineering. The College of Engineering and Computer Science and many of its student organizations have planned a variety of events to celebrate during the week such as a dance, a fashion show, and penny wars. On the left is a complete schedule to the events for the week, including the the TechFest at Sinclair Community College.

CONTENTS

Engineers Week	1
Technology Forum	2
Faculty Facts	2
Autocross	2
Employment Opportunities	3
NAE Award Nominations	3
Club News	4
NSPE Ethics Contest	4
Tau Beta Pi Inductees	4
DAGSI information	5
Scholarships & Fellowships	6-8
Intellectual Property	8

Watch the televisions on the first floor or visit

www.cs.wright.edu/news

for changes and updates in the schedule

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College of
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C
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Science
NEWS

February 2004
Volume 20, No. 4

VISIT US ON THE WEB AT:
www.engineering.wright.edu

FACULTY FACTS

Below is a □
by our faculty.

Bourbakis, Nikolaos G.

Detecting and Mining Similarities, Differences and Target Patterns in Sequences of Images Using the PFF, LGG and SPNG Approaches
Automation, Integration of Information and Systems (AIIS) Inc.
9/1/03-5/31/04.....\$50,000

Chen, Chien-In Henry

Emmert, John

EW Receiver-on-a-Chip (ROC)
Air Force Research Laboratory
6/16/03-11/30/04.....\$75,000

Grandhi, Ramana V.

Simulation Based Research and Development Tools and Processes
University of Dayton
11/1/03-9/30/04.....\$40,000

Hangartner, Thomas N.

Analysis of Cardiac Images by Computed Tomography
Kettering Medical Center
9/21/00-12/31/03.....\$27,978

Lieh, Junghsen

Advanced Control System for Manufacturing Processes – Phase IV: Precision Machining Process Development and Optimization
Delphi Chassis Systems
6/30/01-6/30/04.....\$5,000

Mukhopadhyay, Sharmila M.

Science and Engineering of Carbon Foams: Surface Modification Issues
Ohio University
10/1/03-9/30/04.....\$33,000

Quek, Francis

From Video to Information: Cross-Modal Analysis of Planning Meetings
Ohio Board of Regents – Action Fund
9/1/03-8/31/05.....\$81,834

Rizki, Mateen M.

Hybrid Evolutionary Learning for Pattern Recognition Contract (HELPR) to Three-Dimensional Target Classification
Department of Defense, Air Force Research Laboratory
10/1/02-9/30/04.....\$102,201

Wolff, J. Mitch

Precision Design
Air Force Research Laboratory
1/12/99-12/31/04.....\$60,000

Wright State University Technology Forum

April 1

“From Invention to Market 2004”

Student Union

8.30 am -4.00 pm

A great opportunity to:

- showcase your inventions and technologies to an audience of entrepreneurs, venture capitalists, government officials, and other faculty and researchers from the Dayton-Columbus-Cincinnati area
- Learn more about funding opportunities for transferable projects, IP, Licensing and Agreements! Considering starting your own company?
- Attend our afternoon seminars on entrepreneurship!
- Interested in giving your research project visibility?
- Participate to the Showcase from 11.15 am-4.00 pm with minimal commitment at the booth from 11:15 am - 1:30 pm.

Free lunch included!

Patrick R. Valente, Deputy Director, Ohio Department of Development, Technology Division will be presenting an update on the Third Frontier initiative, the impact of technology commercialization on promoting economic development, and the State's commitment to support technology development through funding opportunities.

For more information, please contact: Isabelle Gorrillot, Sc.D. at 775-2651. More information to be posted shortly on the events' web site at:

www.wright.edu/techtransfer/itm04

The event is FREE and sponsored this year by Taft, Stettenius & Hollister, The Dayton Development Coalition, Dinsmore & Shohl, and i-Zone.

On-Campus Autocrosses

The student section of the Society of Automotive Engineers (SAE) will host nine autocrosses in Lot 4. Autocross is a form of competition; a sport of maneuvering a car through a series of pylons delineating a defined course. The object is to maneuver your car through the course in minimum time. Only one car is allowed on the course at a time.

Drivers range from no experience to professional and vehicles range from regular cars and trucks to special vehicles designed specifically for autocross. The vehicles are separated into different classes for the event. This is a chance to test and improve your driving skills. The autocrosses will be held on Sundays – April 18, May 2, May 9, May 23, June 13, July 25, August 22, September 19, and October 17. Registration is required for drivers and spectators. The approximate cost of driver registration will be \$20 for SCCA members and \$25 for non-members. A typical schedule of events would include registration, safety instructions, technical inspection, drivers meeting, and the running of each class. For safety, Campus Police will be at the autocrosses. Fairborn Fire, Rescue, and EMT will be on call. Alcohol is prohibited at autocrosses.

For more details visit www.worscca.org, and look for SOLO II and schedule. Drivers can also register in advance on the website. For information within CECS, contact Jason Kremer, Justin Rausch, Greg Wilt, or Professor Hannen in room 022 Russ, or at 775-5183.

NAE SEEKS AWARD NOMINATIONS

Each year, the National Academy of Engineering (NAE) recognizes outstanding engineers for their dedication to their discipline, as well as for their development of an engineering invention or process that has greatly improved humanity. Five awards recognize achievements in the field of engineering, and amount to cash awards totaling more than \$1 million annually. The Founders Award and Arthur M. Bueche Award are presented each year at the NAE Annual Meeting in October. The Charles Stark Draper Prize and the Bernard M. Gordon Prize are awarded annually during National Engineers Week, and the Fritz J. and Dolores H. Russ Prize is awarded biennially. The 2004-2005 NAE Awards Call for Nominations is now at hand. Faculty and students are invited to submit their nominations for the 2004 Founders and Bueche awards and the 2005 Draper, Russ, and Gordon prizes by April 12, 2004. For more information on nomination procedures, visit 405 Russ or go online at www.nae.edu/awards.

BITs & PCs

College of Engineering and Computer Science
Wright State University



Dean

James E. Brandeberry, Ph.D., P.E.

Managing Editor

Jenny Garringer

Editor

Samantha Hundt

BITs & PCs is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. 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 current issue of *BITs & PCs* is available on the Web at <http://www.cs.wright.edu/bitsandpcs/>. Copies are also available in the College office, any Department office, literature rack in the Russ Center Atrium, Russ Center Study Lounge, or the Student Club Room.

The next issue of *BITs & PCs* will be published the week of March 1, 2004. To submit items for this issue, call the College of Engineering and Computer Science at (937) 775-5001, or send email to jgarringer@cs.wright.edu by February 23, 2004. The College of Engineering and Computer Science reserves the right to edit all material for publication.

SOCHE Student Research Program

Research Opportunities at Materials Lab and AFIT at WPAFB

Flexible work schedules,

e.g., 12-14 hrs. wk. academic year & 40 hrs. wk. summer;

full-time alternating terms;

or 20 hrs. wk. year round

- we will work with you!

Career related work experience - state-of-the-art labs

Earn while you learn

(Soph. \$11.70 hr; Jr. \$13.15 hr; Sr. \$14.50 hr; Grad. \$17.90 hr; PhD \$21.60 hr)

Undergraduate to graduate students

Degree seeking students in good standing

Must be a U.S. Citizen

No experience necessary

The SOCHE Student Research Program is accepting applications for positions at WPAFB for the following majors:

Chemistry, Computer Science, Electrical Engineering, Materials Science, Mechanical Engineering, Math, and Physics.

SOCHE accepts applications on an on-going basis for current and future job openings.

Submit:

SOCHE Application (available at www.soche.org)

Resume &

Transcript/Advising Report

For more information

Call 937-258-8894

First Weekend 2004 Peer Leader

Wright State University is recruiting 100 positive, energetic and motivated students to become "First Weekend 2004" Peer Leaders. "First Weekend Peer Leaders" will mentor a group of first year students through the new student orientation program called "First Weekend" scheduled for the four days prior to the start of classes – September 3-6, 2004. "First Weekend 2004" is designed to help new students get off to a great start at Wright State, both academically and socially.

Qualifications (for first consideration): Must have completed at least two quarters at WWSU by the end of the Winter 2004 term; must have a minimum CUM GPA of 2.25 (2.50 preferred); must be in good academic, judicial and fiscal standing during the summer and fall quarters of employment; must be able to fulfill the job responsibilities and participate in the mandatory training program. Must possess strong communication skills, both verbal and written; demonstrate solid decision-making and problem solving skills; as well as, be able to work independently or in a team environment with minimal supervision. Must possess basic computer skills and knowledge of the WSU e-mail system. Must be able to facilitate group discussions on a variety of levels and be comfortable with diversity initiatives.

Application Process: Application forms and additional information are available in 180 University Hall or on the web at:

www.wright.edu/uc

For first consideration, please submit the following items to Pamela Wallace-Stroble in 180 University Hall, by March 12, 2004:

- (1) a personally written letter of interest in the position of Peer Leader; and
- (2) a completed and signed First Weekend Peer Leader application form.

Qualified applicants will be invited to interview on Friday, April 2, 2004, or Friday, April 9, 2004.

CLUB NEWS

Wright Engineering Council (WEC)



WEC is pumped for National Engineers Week and is planning lots of fun activities. Be prepared for the Nerd Fashion

Show, High School Egg Drop Competition, Breakfast with the Dean, Movie Night, WEC/SWE Dance, Mocktails, and a Mr. and Ms. Engineer Competition.

Don't forget to come to the WEC Winter Quarter meetings; we will keep you posted for dates and times. To be added to the WEC email list, just contact Michael Gessner (gessner.4@wright.edu). For further questions about WEC or WEC activities, please contact Todd Dobmeyer (dobmeyer.2@wright.edu). Feel free to check out our website at:

www.cs.wright.edu/cecs/clubs/wec

Tau Beta Pi (Engineering Honor Society)



The month of February will be a busy one for Tau Beta Pi. We will be holding the annual Tau Beta 'Pie' eating contest on Wednesday, February 18th at 1pm during National

Engineers Week, along with participating in Club Fair on that Monday. Also, Tau Beta Pi will be holding their initiation ceremony on Friday, February 20, 2004 at 6:30pm at the WSU Kettering Center. During this month we will be working with WEC to plan a Euchre Tournament that will be held on March 6th in the Student Union. We are also working on planning the first annual Pi Mile Run to be held in late April or early May.

Are you a CECS Club?

Would you like your organization's information shown here in Bits & PCs?

Contact Jenny Garringer at jgarring@cs.wright.edu

American Society of Mechanical Engineers (ASME)



National Engineers Week – February 16-20, 2004 ASME is now accepting event ideas for the Club Fair that will be taking place on the 16th. We will also participate in the 3rd

Annual CECS vs. CoNH (College of Nursing and Health) Volleyball Competition.

Regional Conference – April 2-3, 2004 at The Ohio State University

More info will come as the date approaches. For more information visit:

<http://regions.asme.org/regionv/>
<http://relsgi.eng.ohio-state.edu/~asme/>

NSPE Ethics Contest in Works

The National Society of Professional Engineers (NSPE) is inviting all current members to participate in its 2004 Milton F. Lunch Ethics Contest and match their wits with experienced professional engineers and engineering students throughout the country. Provided with a real fact situation, participants will answer a question about its ethics and develop a discussion and conclusions using the format of the NSPE Board of Ethical Review and cite references using specific sections of the NSPE Code of Ethics for Engineers

All entries must be 750 words or less and must be received by Friday, April 9, 2004. Mail, fax, or e-mail entries to:

2004 NSPE F. Lunch Ethics Contest
NSPE Legal Department
1420 King Street, Alexandria, VA 22314
(703) 684-2840
mcannon@nspe.org

The winning entry will be recognized in Engineering Times and NSPE state societies and chapters will receive an award of \$500. For more information, visit 405 Russ or go to www.nspe.or/ethics/eh01-test.asp.

New Members Inducted into Tau Beta Pi

The OhioMu Chapter of Tau Beta Pi National Honor Society will be having an initiation for new members on February 20, 2004. The initiation ceremony will be held at 6:30pm at the WSU Kettering Center in Dayton and a dinner will be held following the ceremony at the Dayton Engineers Club. All current student, faculty and staff members of Tau Beta Pi are encouraged to attend the initiation ceremony to recognize our outstanding new initiates. Students are invited to join Tau Beta Pi based on their scholastic standing; juniors must be in the top eighth of their class while seniors must be in the top fifth of their class. Tau Beta Pi also recognizes alumni and eminent engineers by offering membership after they have been engaged in engineering for at least 10 years. The following is a list of people who will be initiated in February; please give them your sincere congratulations, as it is quite an honor to be offered membership into this distinguished society.

Junior Initiates:

Joseph Fuhr
Anthony Halley
Henry Griffith
Brian Lovewell
Randy Tobe

Senior Initiates:

Amantha Allen
Andrew Brackman
Joshua Burger
Allison Gadd
Renecia Joseph
Jeffrey Laubenthal
Kelly Loughlin
Andrew Maley
Rebekah Puterbaugh
Jason Robinson

Alumnus Initiate:

Mr. David Kender

Eminent Engineer Initiates:

Mr. Ronald Bullock
Dr. S. Narayanan

CONGRATULATIONS

DAGSI SCHOLARSHIPS

Applications are now
being accepted for



DAGSI Competitive Scholarships

for the 2004-2005 academic year.

Visit www.dagsi.org to apply.

Scholarships provide full tuition for both full-time and part-time study in the M.S. and Ph.D. programs. Full-tuition scholarships with an annual assistantship (\$18,000) are available for full-time Ph.D. students.

Applicants must be admitted into the WSU School of Graduate Studies in the engineering or computer science program of study before their DAGSI application can be processed. Please note: The graduate school admission process may take 2-3 weeks to complete.

Completed DAGSI Competitive Scholarship applications must be submitted on-line by 5:00 pm on March 15, 2004. Supporting documents must be submitted by that date to room 405 Russ Engineering Center.

For more information, contact:

College of Engineering and Computer Science

Office of the Dean

405 Russ Engineering Center

Phone: (937) 775-5001

dean@engineering.wright.edu

IMPORTANT INFORMATION FOR SENIORS

Do you have plans to attend grad school in Fall 2004?

You are encouraged to apply for a full tuition scholarship from the Dayton Area Graduate Studies Institute (DAGSI). Applications and complete details are available at www.dagsi.org.

IMPORTANT: You must apply and be accepted to WSU's School of Graduate Studies (SOGS) before the **March 15, 2004** scholarship application deadline.

To apply to SOGS please see:

www.cs.wright.edu/gs/admissioninfo.html

No DAGSI applications will be accepted from students who have not received "Conditional" or "Regular" admission from SOGS by March 15, 2004.

Suggested timeline for seniors interested in applying for DAGSI:

ASAP:

Apply to the School of Graduate Studies

Mid January:

Check with your department and/or advisor to make certain your admittance status is either "Regular" or "Conditional"

Late January:

Begin making requests for letters of reference from professors/advisors/employers. You must turn in 2 reference letters with the DAGSI scholarship application no later than March 15, 2004

Early February:

Finalize paperwork required by SOGS to ensure that you have been admitted to your program of study, as either "Regular" or "Conditional"

Mid February:

Complete DAGSI Scholarship Applications and forward it to the Dean's Office, 405 Russ Engineering Center (See applications for complete mailing address)

March 15, 2004:

Final deadline for scholarship application forms

Late March:

Receive notification of your award from the DAGSI office

SCHOLARSHIPS & FELLOWSHIPS

Described below are many of the scholarship, fellowship, and grant programs available to students of the College of Engineering and Computer Science at Wright State University.

The **American Syringomyelia Alliance Project (ASAP)** has announced the availability of research grants for 2004. Proposals are especially encouraged in certain areas of syringomyelia research, but other related topics are welcomed. Grants of up to \$50,000 are available and proposals are due by April 1, 2004 for funding beginning September 1. For more information regarding suggested proposal topics and application procedures, see www.asap.org/research.cfm, or visit room 405 Russ.

The **U.S. Navy** is looking for bright, well-rounded engineers to participate in its Nuclear Propulsion Officer Candidate (NUPOC) program. Those interested may apply as early as the second semester of their sophomore year, and as late as post-graduation, and must attend a personal interview with a Navy Admiral. Accepted applicants will train to be officers and leaders on-board the Navy's nuclear carriers and submarines. Benefits include a \$10,000 signing bonus, military pay while you complete your education at WSU, competitive salary with guaranteed pay increases as you advance in rank, full medical and dental insurance, 30 days paid vacation per year and postgraduate education opportunities. In addition to the NUPOC program, the Navy is also offering positions for qualified individuals teaching at the Nuclear Power School in Charleston, SC. Participants would be commissioned officers in the US Navy, with no sea duty obligation. For information please contact Lieutenant, junior grade, Teri Lawson at 800-553-1146 ext. 127, or e-mail her at lawsont@cnrc.navy.mil.

The **United Nations Educational, Scientific and Cultural Organization (UNESCO)** and **DaimlerChrysler** have joined forces to offer an opportunity to engineering students to address the challenge of sustainable development. The Mondialogo Engineering Award calls on young engineers to team up in order to apply their skills and expertise in order to help improve the living conditions of people in developing countries. Teams will form a proposal with the goal of developing practical solutions that demonstrate excellence in the application of engineering by addressing such basic needs as water supply, sanitation, affordable housing, transport, communication, food production and processing, health services and technological infrastructure. Proposals should particularly address the United Nations' Millennium Development Goals, especially poverty eradication and sustainable development. Initial applications are due February 28, 2004, and final proposals must be submitted by December 31, 2004. For an application form and more information about proposal procedures visit www.mondialogo.org or come to room 405 Russ.

The **American Society of Mechanical Engineers (ASME)** has announced its Federal Government Fellow Program for 2004-2005. The program allows ASME members to work for one year with the staff of a congressional committee, U.S. Senator or Representative, working in the process of public policy development. Fellows come away with an understanding of the governmental process and an extensive network of contacts in Washington, and bring an insider's perspective on government decision making back to their employers. They may serve from September 2004 to August 2005, or from January 2005 to December 2005. Any interested ASME member is encouraged to apply before the April 1, 2004 deadline by contacting Allan Pratt

at the ASME Washington office at (202) 785-3756 or pratta@asme.org. More information and an on-line application are also available at www.asme.org/gric.

The **Ohio Aerospace Institute (OAI)** is currently taking applications for its Ohio Aerospace Internship Program. The program places Ohio residents at Ohio academic institutions into internship opportunities with companies pursuing aerospace related enterprises within the State of Ohio. The internships offer at least 13 weeks of full-time employment or at least 26 weeks of part-time employment with wages ranges from \$13-\$15 per hour, and the State of Ohio will provide up to \$3,000 matching funding for each internship. Participating companies for 2003 include Delphi, General Electric, Goodrich Corporation, Rockwell Automation, Sierra Lobo, Swagelok Company, UES, Inc., WebCore Technologies, Inc., and ZIN Technologies. In order to qualify, applicants must be Ohio residents in good academic standing as sophomores or juniors in a math, science or engineering curriculum of study. Applications are due by February 13, 2004 and are available along with more information at www.oai.org/internships, or www.grc.nasa.gov.

The **Ohio Space Grant Consortium** is now taking applications for its Junior and Senior Scholarships, awarded to those studying in aerospace-related engineering and science. In order to apply juniors and seniors must expect to complete the requirements for their BS degree no later than August 2006, and August 2005, respectively. As part of their application juniors must include a one-page personal objective statement, and must attend the annual Spring Research Symposium. The Junior Scholarship is a one-year award of \$2,000, beginning with the fall, 2004 term, and renewable upon good academic and research performance for the Senior Scholarship. Senior applicants must include a proposal for a research project to be conducted under the guidance of a faculty member. Scholarship winners must participate in the research in a campus laboratory, and must attend and make a brief oral presentation of their research at the annual Spring Research Symposium. The Senior Scholarship is a one-year award of \$3,000, paid during the 2004-2005 school year

Also available is the Graduate Fellowship Program, offered to students who are United States citizens and have demonstrated the ability and aptitude for advanced study in aerospace-related engineering and science. Applicants to the Master's Degree and Doctoral program must be expected to have completed their Bachelor's or Master's Degrees, respectively, before the Fall 2004 term. Master's Fellowship recipients are required to select a thesis option for their program and to demonstrate the aerospace relationship of their thesis before the end of the first year. This award includes a stipend of \$14,000 per calendar year, plus tuition and begins in the fall of 2004 with a maximum tenure of 18 months. Doctoral Fellowship recipients are required to choose a dissertation research area of technical interest and importance to the NASA Glenn Research Center or another research center, and must collaborate with a government laboratory scientist/engineer. This award includes stipend of \$18,000 plus tuition, and begins in the fall of 2004 with a maximum tenure of three years. Both the Master's Degree and Doctoral Fellows are required to present their research at the annual Research Symposium.

For more information on any of these programs and their applications, due February 28, 2004, contact Campus Representative, Dr. Ruby Mawasha in 405 Russ, or Program Manager, Laura Stacko, at 1-800-828-OSGC, or visit www.osgc.org.

SCHOLARSHIPS & FELLOWSHIPS

The **Association of State Dam Safety Officials (ASDSO)** is currently accepting applications for its undergraduate scholarship program. Scholarships of up to \$5,000 will be awarded for the 2004/2005 school year. Applicants must be U.S. citizens and full time students at the senior level during the 2004/2005 year, and must show an interest in a career in hydraulics, hydrology, or geotechnical disciplines, or in another discipline related to the design, construction and operation of dams. Applicants must hold a 2.5 grade point average and must be recommended by their academic advisor. A typewritten essay must be submitted on the topic: What is ASDSO and why is dam safety important? Selection will be based on academic scholarship, financial need, work experience and activities, and the essay. Applications must be received by March 31, 2004, and are available, along with other information at www.damsafety.org, or in 405 Russ.

The **NASA Goddard Space Flight Center (GSFC)**, in Greenbelt, Maryland, is currently taking applications for its Visiting Student Enrichment Program (VSEP). Participating students will visit the flight center near Washington, D.C. as student employees of the Goddard Earth Sciences and Technology Center of the University of Maryland, Baltimore County (UMBC), from June 7 to August 13, 2004. Through VSEP, students will work with professionals at a world-class facility on a project focusing primarily on computer science or its application in other sciences. In addition, they will attend field trips and lectures relating to GSFC's missions and activities. In order to qualify, students must have taken courses in physical and computer sciences directly related to their areas of study. They must also be U.S. citizens or foreign nationals who are permanent residents or possess a valid F-1 or J-1 visa. Participants will be full-time employees of UMBC, and will receive \$10-\$12/hour. VSEP will arrange local housing and reimburse up to \$500 for one round trip between the student's home and Maryland. Applications must include a cover sheet, a written statement of career goals and reasons for interest in VSEP, description of relevant experience, two letters of reference, and formal transcripts for the past two full academic years, and must be received by February 20, 2004. For an application or more information about the process, please see <http://vsep.gsfc.nasa.gov>, or visit 405 Russ.

Also available through GSFC and its Earth and Space Data Computing Division and Computational Technologies Project is the NASA Summer School for High Performance Computational Earth and Space Sciences. Fifteen doctoral students will be chosen to participate in a three-week program where they will receive hands-on parallel computer training and small group interaction experience. Lectures will be given on such topics as computational fluid dynamics and particle methods as well as developing software for scalable architectures, and students are encouraged to give a presentation of their thesis research interests during their course of study. Eligibility is limited to doctoral Earth and space science students who are enrolled in U.S. universities, and preference will be given to those who are U.S. citizens. Qualifying students will receive a stipend of \$1,440 (\$12 per hour) and will be reimbursed for domestic transportation to and from Greenbelt, MD. Students will be housed within commuting distance of the GSFC, to and from which transportation will be provided. Apply online at http://ct.gsfc.nasa.gov/summer_school.html or by mail directed to Marci P. Delaney, Program coordinator; GEST Center, Mail Code 900.1; NASA Goddard Space Flight Center; Greenbelt, MD 20771. All applications must be received before February 27, 2004. For more information on what to include in the application, visit the above website or 405 Russ.

The **Naval Research Laboratory (NRL)** sponsors a postdoctoral fellowship program that is designed to increase the participation of highly trained scientists and engineers in scientific and technical areas of interest in the Navy. Scientists and engineers at participating naval laboratories help shape and execute the programs that support Naval Forces in their future operational needs. Competitive stipends based on experience are offered. Relocation and travel allowances along with a comprehensive benefits package including health, life, and disability insurance are also offered. All applicants must be U.S. citizens or permanent residents, or must hold a green card. Permanent resident status eligibility for fellowship positions may vary with each laboratory. Before appointment, each participant must present evidence of having received a Ph.D. or equivalent degree. The applicant must submit a 5-10 page research proposal that relates to a specific research opportunity. Applications are accepted on an ongoing basis. Women and minorities are strongly encouraged to apply. For application material and detailed information, visit www.asee.org/nrl.

The **NSF/SRC Engineering Research Center for Environmentally Benign Semiconductor Manufacturing** is offering 10-week summer research internships at University of Arizona and University of California (Berkeley) for undergraduates in engineering and science fields. Students work with professors and graduate students in the fields of chemical and environmental engineering, materials science and engineering, optical science, electrical and computer engineering, and chemistry. In particular, students will explore the development of alternative chemistries for semi-conductor manufacturing processes, chemical use minimization, process control and instrumentation, and treatment and recycle of water and wastewater, and all will work with state-of-the-art equipment. Students participate in research progress teleconferences with industrial mentors and receive feedback on their research progress. Students will also attend seminars on topics such as graduate preparation and environmental issues, and will tour a research clean room microelectronic facility. A final research report will be prepared and students will deliver a presentation on their research project. The program begins Monday, May 31, 2004, and ends on Friday, August 6, 2004. Students will work approximately 40 hours per week on research and attend scheduled meetings and field trips. Students will be paid a \$3,000 stipend and will be provided with on-campus housing and a travel allowance of \$500. In order to be eligible, participants must be U.S. Citizens or Permanent Residents who are Engineering, Chemistry, or Physics undergrads are not graduating prior to summer. Students with GPAs of 3.0 or higher are preferred, and women, under-represented minorities, and disabled persons are encouraged to apply. Applications are due March 15, 2004, and can be downloaded at www.erc.arizona.edu/Education/REU/reu.html and sent to Ms. Sally Clement; Chemical and Environmental Engineering; PO 210011; The University of Arizona; Tucson, AZ 85721-0011. For more information, visit 405 Russ.

The **National Society of Professional Engineers (NSPE)** is currently accepting applications for several opportunities. The Paul H. Robbins, PE Honorary Scholarship provides \$10,000 to an outstanding sophomore. The Milton F. Lurch Memorial Internship provides 6 weeks of summer employment at the Victor O. Schinnerer Company in Bethesda, MD, as well as \$6,000, for a student who has complete two years of a four year degree. Applications are due March 1, 2004, and more information is available at www.nspe.org.

In honor of David B. Steinman, the NSPE has created a \$10,000 Steinman Fellowship assist young engineers in their pursuit of a graduate degree in engineering. One NSPE senior student member will be awarded in Ohio jointly by NSPE and the Engineers Foundation of Ohio. All eligible NSPE/OSPE student members are encouraged to apply. Applicants must be U.S. citizens who have taken or passed the Fundamentals of Engineering exam, and have been accepted in a graduate program in engineering at an EAC-ABET accredited Ohio school. Applications are due March 31, 2004. For more information about the application and evaluation processes, visit 405 Russ.

Intellectual Property Seminar

presented by
Joseph A. Edminister, J.D., P.E.

Wednesday, February 25, 2004
12:00pm to 1:00pm
145 Russ.

Intellectual property is the term used to describe ownership of intangible creations of the human mind, such as inventions and trademarks. The principal fields of law governing intellectual property are patents, trade secrets, copyrights, trademarks, cyber law, unfair competition and the right of privacy.

Pizza and pop will be provided during the seminar and a panel discussion will follow the presentation.

If you are interested in attending, please RSVP by February 18th to Leslie Hurst at (937) 775-5010 or via email at lhurst@cs.wright.edu.

Important Dates

February 16-20	National Engineers Week
March 1	Last day to apply for June graduation
March 13	Last day of winter quarter classes
March 15-20	Final examinations
March 29	First day of spring quarter classes
May 25	Last day to apply for August graduation
May 31	UNIVERSITY CLOSED Memorial Day
June 5	Last day of spring quarter classes
June 7-12	Final examinations
June 11	CECS Awards Ceremony - 4:30 PM Order of the Engineer Ring Ceremony - 7:00 PM

Office of the Dean
3640 Colonel Glenn Hwy.
Dayton, OH 45435-0001
College of Engineering and Computer Science

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