



BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

February 2002 Wright State University Dayton, Ohio 45435 Vol. 18 No. 5

Important Dates

- February 17-23
National Engineers Week
- February 18
CECS Open House
- February 26
Last day for freshmen to drop a class with a grade of "W"
- March 11
Last day of W02 classes
- March 12-16
Final Exams Week
- March 25
Spring Quarter classes begin
- April 26
Last day for all but freshmen to drop a class with a grade of "W"
- May 17
Last day for freshmen to drop a class with a grade of "W"
- May 27
NO CLASSES,
Memorial Day Holiday
- June 1
Last day of S02 classes
- June 3-8
Final Exams Weeks
- June 8
Spring Quarter Commencement

National Engineers Week: Without Engineers the World Stops



National Engineers Week is celebrated annually by thousands of engineers, teachers, engineering students, and leaders in government and business. In 1951 the National Society of Professional Engineers founded National Engineers Week to increase public awareness and appreciation for engineering. This year's theme is "Without Engineers the World Stops." The College of Engineering and Computer Science will be celebrating E-Week with a variety of events. A proposed schedule of events is listed below for the week. Other club events may develop before E-Week, so watch for additional postings in the lobby. For more information on E-Week events, contact Jenny Garringer via email at jgarringer@cs.wright.edu.

National Engineers Week Schedule of Events

| <u>Date and Time</u> | <u>Event</u> | <u>Location</u> |
|---|---|--|
| <i>February 15-22, 2002</i> | Penny Wars* | All Departmental Offices |
| <i>February 15, 2002</i> 11:00 AM - 1:00 PM | ASME Bowling Party at Beaver-Vu** | Meet at 10:45 AM in RC Atrium |
| <i>February 18, 2002</i> 1:00 PM - 5:00 PM 2:00 PM - 4:00 PM 7:00 PM - 8:30 PM 8:00 PM - 10:00 PM | CECS Open House Club Fair ACM/IEEECS Bioinformatics Presentation WEC Movie Night | Russ Center Atrium Russ Center Atrium E163 Student Union 144 Russ Center |
| <i>February 19, 2002</i> 2:00 PM - 4:00 PM | WEC Scavenger Hunt | Meet in Russ Atrium |
| <i>February 20, 2002</i> 12:00 PM - 12:30 PM 12:30 PM - 1:15 PM 1:15 PM - 1:45 PM 2:00 PM - 3:00 PM | Gathering at the Rail (GATR) Nerd Fashion Show WEC Mouse Pad Slide Tau Beta "Pie" Eating Contest | Russ Center Atrium Russ Center Atrium Russ Center Atrium Russ Center Atrium |
| <i>February 21, 2002</i> 8:00 AM - 9:00 AM | Breakfast with the Dean | 405 Russ Center |
| <i>February 22, 2002</i> 8:00 AM - 1:00 PM 1:00 PM - 2:00 PM | Trebuchet Contest WEC Big Wheel Races | McLin Gym - Nutter Center Quad |

* Proceeds will benefit the Isaac Weiss Memorial Scholarship

** Do not have to be an ASME member to participate. Cost involved: \$5.00 to bowl two games (shoes are included)

Visit us on the Web at <http://www.engineering.wright.edu>

Another Successful Co-Op Day



The Co-Op Recruiting Day for engineering, computer science, and MIS students held on January 24th in the Russ Engineering Center was an enormous success. Over 300 professionally dressed students attended the event, breaking all previous attendance records. Representatives from 18 companies were on-hand to recruit and interview students for positions available during spring and summer quarters.

Companies participating in the event included A.O. Smith, Bar Code Applications Consulting, Inc., CACI, Inc., Copeland Corporation, Dayton Artificial Limb, Delphi Chassis – Kettering, General Electric Aircraft Engines, Honda of America Mfg., Inc., ITCN, NASA Glenn Research Center, NCR, Norcold, Inc., SOCHE, Speedway SuperAmerica, Systran Corporation, The Relizon Co., Wright Patterson Air Force Base, and Xontech, Inc.

The next Co-Op Recruiting Day will be held on Thursday, July 25th and the employers will be seeking students for fall or winter quarter co-op positions. Watch for more information in the coming months.



American Society of Mechanical Engineers

Next Meeting: Friday, February 15, 2002
Bowling at Beaver-Vu Bowl
11:00 AM - 1:00 PM
Meet at 10:45 AM in the Russ Lobby

You do not have to be an ASME member to participate.
Cost involved: \$5.00 to bowl two games (shoes are included)

*ASME membership is free to all freshmen students for their first year.
ASME membership dues are \$10 right now for all other new students (normally \$20)*

Term Paper Research Clinics

Students working on term papers and research projects now have a new resource from the University Libraries. The Libraries' Term Paper Research Clinics are designed to help students:

- Learn basic information searching skills
- Use the Libraries' web site
- Find quality, pertinent resources on their topic

These one-on-one, one-hour sessions with a Reference Librarian can help you improve your library research skills. The clinics will be available now through February 22, 2002. Students are required to make reservations. For more information or to schedule an appointment, visit the Information Desk on the second floor of the Dunbar Library or call (937) 775-2925.

ASME Presentation Well Attended



The "Your First Year on the Job" presentation sponsored by ASME on Tuesday, January 22nd in 145 Russ was very well attended by CECS students. Thomas Wendt, the Director of the ASME Midwestern Regional Office, made the presentation to students. He took students through their first year on the job and provided them with information that will help in the future. He discussed several topics including: how to conduct yourself at meetings, pay plans and bonuses, how to do your job, tips on getting ahead, continuing education opportunities, and much more. After the presentation, the students enjoyed pizza and had the opportunity to talk to Mr. Wendt and ask additional questions.

Applications are now being accepted for



DAGSI Competitive Scholarships

for the 2002-2003 academic year.

Visit

www.dagsi.org

to get a downloadable application form.

For more information, contact:

College of Engineering and Computer Science

Office of the Dean

405 Russ Engineering Center

Phone: (937) 775-5001

Email: dean@engineering.wright.edu

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 (\$15,000) are available for full-time Ph.D. students.

Applicants must be admitted to the WSU School of Graduate Studies in an 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). Two letters of reference are required with each application. Reference letters can be forwarded directly to the Dean's Office, separately from the application. Please see your advisors early.

Completed DAGSI Competitive Scholarship applications **must** be submitted by

5:00 PM on March 15, 2002,

to Room 405 Russ Engineering Center.

* If you have not been admitted in your program of study by March 15, 2002, your DAGSI application will not be reviewed,

Downie Named New Director of DAGSI

Dr. Elizabeth Downie has been named the new Director of the Dayton Area Graduate Studies Institute (DAGSI). Downie replaces Dr. Frank Moore, who retired from the position a few months ago.



Dr. Downie received her Ph.D. in geology from Harvard University, where she specialized in metamorphic petrology and structural geology. She taught at SUNY College at New Paltz and Amherst College while continuing research into Appalachian mountain-building history and consulting for the U.S. Geological Survey. Her growing interest in the evolution of technology and the process of innovation led her MIT's Sloan School, where she earned an M.S. in Management and a concentration in the management of technology. While at MIT, Downie held a research assistantship with the Commercial Aircraft team on MIT's Commission on Industrial Productivity.

Downie took a position as Senior Development Scientist with Corning, Inc. in 1988, where she continued to pursue her scientific and technical interest in materials while managing development projects. She moved into the commercial business arena and spent 12 years at Corning in a variety of sales, marketing, and general management positions. Her experience includes engineering, project management, new business and new product/process development, and strategy formulation and deployment. Dr. Downie moved to Ohio in 1992 as Product Line Manager for Corning's lighting glass business, based at the manufacturing plant in Greenville.

Downie's desire to stay in the Miami Valley led her to seek a new opportunity rather than relocate with Corning. Directing DAGSI allows her to use her academic, technical, and business skills to lead the organization. For more information on Dr. Downie or DAGSI, please contact the DAGSI office by phone at (937) 781-4000 or visit the DAGSI website at <http://www.dagsi.org>.

FACULTY

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Nikolaos Bourbakis, Ph.D., ITRI, has received additional funding from the Ohio Board of Regents in the amount of \$89,108 for his proposal entitled "Priorities in Graduate Education."

Jennie Gallimore, Ph.D., BIE, has received funding in the amount of \$3,300 from the Dayton Area Graduate Studies Institute (DAGSI) for her proposal entitled "Supervisory Control of Remotely Operated Vehicles."

Oscar Garcia, Ph.D., CSE, has received additional funding in the amount of \$122,290 from the Ohio Board of Regents for his proposal entitled "Priorities in Graduate Education (Computer Science)."

Thomas Hangartner, Ph.D., BIE, has received additional funding from the Procter and Gamble Company in the amount of \$2,802 for his proposal entitled "Evaluation of a Novel Treatment for Osteoarthritis of the Knee."

Chester Harris, Ph.D., ITRI, has received funding in the amount of \$38,100 from Lexis-Nexis for his proposal entitled "Analysis of Lexis-Nexis Queue Management."

Chandler Phillips, Ph.D., and David Reynolds, Ph.D., BIE, have received \$10,000 in funding from the National Science Foundation, Research Experiences for Undergraduates for their proposal entitled "REU Supplement - Bioengineering Design Projects for the Disabled."

Mitch Wolff, Ph.D., ME, has received funding in the amount of \$35,000 for his proposal entitled "Precision Design" and \$182,306 for his proposal entitled "Intergovernmental Personnel Agreement" both of which are funded by the Department of Defense, Air Force, and the Air Force Research Laboratory. In addition, Dr. Wolff received \$3,300 in funding from the Dayton Area Graduate Studies Institute (DAGSI) for a proposal entitled "Computational Fluid Dynamics II."

Kefu Xue, Ph.D., EE, has received funding from Zybron Optical Electronics, Inc. in the amount of \$67,726 for his proposal entitled "Visible and Infrared Sensor Fusion."

Career Exploration Weekend

Boonshoft Museum of Discovery

2600 DeWeese Parkway, Dayton, Ohio

Saturday, February 9, 2002 — 11:00 AM to 4:00 PM

Sunday, February 10, 2002 — 1:00 PM to 4:00 PM

Hands-on exhibits representing the nature of various science, math, and engineering professions intended to stimulate an interest in these professions.

Students in grades 5-12 and college students who register at the registration table for the Career Weekend will be admitted free of charge. College students may want to come and discuss career characteristics with the professionals.

For more information, contact the Museum at (937) 275-7431

Get a Free Graduate Education at AFIT

The Air Force can send you to graduate school as your regular job and pay for it.

To Begin

To begin, apply for the Officer Training School (OTS). This fast-paced school is located at Maxwell Air Force Base in Alabama. If you are selected, you will be challenged at every turn. Your studies will include classes in professional knowledge, leadership and management, defense studies, and communication skills. You will take part in organized sports and physical conditioning to develop your confidence and teamwork abilities.

To be eligible for OTS you must be a U.S. citizen, 18-34 years of age, and meet certain physical requirements. You must have excellent moral character and score competitively on the Air Force Officer Qualifying test. In addition, you must be a graduate of an accredited college or university. You may apply for OTS if you are within 365 days of graduation.

For more information, contact:

Douglas Fields
Officer Accessions
2940 Presidential Drive, Suite 160
Fairborn, OH 45324
(937) 427-3158
Email: douglas.fields@rs.af.mil

AFIT offers MS degrees in the following areas:

- Acquisition management
- Engineering physics*
- Aeronautical engineering*
- Information resource management
- Applied mathematics*
- Logistics management
- Applied physics*
- Materials science and engineering*
- Astronautical engineering*
- Meteorology
- Computer engineering*
- Nuclear engineering*
- Computer systems*
- Operational analysis
- Electrical engineering*
- Operations research*
- Electro-optics*
- Systems engineering*
- Engineering and environmental management
- Space operations

* AFIT offers the doctor of philosophy degree in this area

AFIT is just one of the several competitive educational programs the Air Force has to offer.

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National Society of Black Engineers

Mission

NSBE's mission is to increase the number of culturally responsible black engineers who excel academically, succeed professionally, and positively impact the community.



Wright State's NSBE Chapter would like to thank Panasonic for their very generous contribution of \$200. NSBE also sends out an invitation to anyone who would like to come out and participate in the club to join us at our weekly meetings, held every Wednesday at 7:15 PM in E154 Student Union.

For more information, contact Gene Smith, Jr. at (937) 775-1668.

BITs & PCs

College of Engineering and Computer Science
Wright State University



Dean

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

Editor

Jenny Garringer

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 racks 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 4, 2002. 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 18, 2002. The College of Engineering and Computer Science reserves the right to edit all material for publication.

SCHOLARSHIPS AND FELLOWSHIPS

The American Public Power Association (APPA) awards scholarships each year of its DEED (Demonstration of Energy-Efficient Developments) Program. APPA will award one Technical Design Project each year intended to promote the involvement of students studying energy related disciplines and geared towards engineering students. Deadline is October 15, 2002. For more information and an application visit DEED's website at <http://www.APPAnet.org>. You may also call Elizabeth Sullivan at (202) 467-2942 or email her at DEED@APPAnet.org.

The Association of State Dam Safety Officials is currently accepting applications from junior and seniors enrolled in a civil engineering program or related field and are interested in pursuing a career in hydraulics, hydrology or geotechnical disciplines, or in another discipline related to the design, construction

and operation of dams. Applications are available online via their website at <http://www.damsafety.org> or in 405 Russ. Applications must be submitted by February 15, 2002.

The Hispanic Scholarship Fund (HSF) and the Ford Motor Company Fund have partnered to continue the HSF/Ford Motor Company Corporate Scholarship Program. Scholarships are available on a competitive basis to full-time Junior students of Hispanic heritage pursuing a degree in engineering, computer science, or business. Application packets must be postmarked by March 15, 2002. For more information and applications, visit the Dean's Office, 405 Russ.

The NSF/SRC Engineering Research Center for Environmentally Benign Semiconductor Manufacturing is accepting applications for summer research internships for undergraduates. The pro-

gram will place undergraduate engineering and science students in research labs at the University of Arizona, University of California (Berkeley), Massachusetts Institute of Technology (MIT), Stanford, Arizona State University and Cornell for ten weeks from June 3 to August 9, 2002. Students will have the opportunity to work with professors and graduate students involved in multidisciplinary research in environmentally friendly semiconductor manufacturing in the fields of chemical and environmental engineering, materials science and engineering, optical science, electrical and computer engineering, and chemistry. A student stipend, housing and travel costs will be paid. Applications are due March 15, 2002. For more information, visit <http://www.erc.arizona.edu> or email Sally Clement, Education Coordinator at sclement@erc.arizona.edu

***Are you interested in pursuing a Master's degree or a Ph.D.?
Are you interested in going into officer training after graduation?***

Then you should attend the

U.S. Air Force Information Session and Pizza Party

**FREE
PIZZA!!**

Wednesday, February 27, 2002

4:00 PM - 5:30 PM

145 Russ Engineering Center

**FREE
POP!!**

Speakers will be on hand to discuss the many opportunities the U.S. Air Force can offer engineering and computer science students.

Students interested in attending should RSVP by February 22, 2002 to the Dean's Office, 405 Russ, (937) 775-5001 or email jgarring@cs.wright.edu.

OSGC Scholarships and Fellowships



Pictured above are the 2001-2002 scholarship recipients (l-to-r): Stevie Runyon, Jeremiah Allen, Eric Roush, and Rachel Gligorich

The Ohio Space Grant Consortium (OSGC) is accepting applications for undergraduate scholarships and graduate fellowships for the 2002-2003 school year for students pursuing aerospace-related science and engineering degrees.

What are "aerospace-related science and engineering degrees?" Among the recent undergraduate recipients listed on the OSGC website, there are every imaginable sort of engineer. This program is also open to computer science, biology, physics and mathematics majors.

The undergraduate scholarship amounts are \$2,000 for juniors and \$3,000 for seniors (based on student classification as of Fall 2002), and WSU will award at least two junior and at least two senior awards! The graduate fellowship amounts are \$14,000 for Masters level and \$18,000 for Doctoral level students and WSU students will compete with other students across Ohio for these awards.

For more information, visit:

<http://www.osgc.org>

and either

<http://www.osgc.org/Scholarship.html>

or

<http://www.osgc.org/Fellowship.html>

The program is limited to U.S. citizens and the application deadline is February 15, 2002.

Mitch Wolff (Department of Mechanical and Materials Engineering, 123 Russ, mwolff@cs.wright.edu) is the Wright State representative for the OSGC. Brochures and application forms are available from Dr. Wolff, the Dean's Office (405 Russ), or online via the OSGC website.

IGTI Scholarship Awarded



Pictured above (l-to-r): Jeff Haferd, IGTI Scholarship Recipient, and Thomas Wendt, Director of the ASME Midwestern Regional Office

The International Gas Turbine Institute (IGTI), a division of the American Society of Mechanical Engineers (ASME), awarded a \$1,000 scholarship to Jeff Haferd. Since initiating the scholarship program in 1986, IGTI has contributed a total of \$923,500 in undergraduate scholarships. Thomas Wendt, Director of the ASME Midwestern Regional Office, presented the check and certificate to Jeff Haferd on January 22nd at his presentation sponsored by the student section of ASME entitled "Your First Year on the Job."



ASME Tour of Abington Steel

The Dayton Section of ASME will hold its first 2002 meeting and tour at the facilities of the Abington Steel Corporation on Thursday evening, February 7, 2002 from 6:00 PM to 7:30 PM.

Abington Steel is a large custom steel fabricator located in Brookville (6971 Brookville-Salem Road, <http://www.abingotnsteel.com>, just south of the SR 49 exit off I-70.) Abington Steel provides industries with custom metal fabrication throughout the 5-state area from this location.

A light sandwich buffet will be provided for ASME tour participants. Please call to indicate your attendance by 9:00 AM the day of the tour so that enough food will be present on the buffet. Call 833-1111 to leave your name, the number you are bringing, and your phone number (in the event of any unexpected cancellation.)

Upcoming Events

College of Engineering and Computer Science *Open House*

MONDAY, FEBRUARY 18, 2002

1:00 PM - 5:00 PM

RUSS ENGINEERING CENTER LOBBY

held in conjunction with
NATIONAL ENGINEERS WEEK

FEBRUARY 17-23, 2002

- √ Learn about our engineering and computer science programs
- √ Tour our state-of-the-art facilities and the campus
- √ Obtain information about admissions, financial aid, and cooperative education
- √ Receive a copy of our Employment Guarantee
- √ Hear a special presentation at 3 PM by WSU students: "Why Choose WSU"

For more information:

Phone: (937) 775-5001 Email: dean@engineering.wright.edu
or visit us on the web at <http://www.engineering.wright.edu>

Office of the Dean

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