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Wright State University College of Engineering and Computer Science

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BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

May 1996

Wright State University Dayton, Ohio 45435

Vol. 12 No. 5

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 World Wide Web at <http://www.cs.wright.edu/info/bits&pcs.html>. There are also links to past online issues and the college home page at <http://www.cs.wright.edu/>. Copies are also available in the college office, any department office, or the student club room. The next issue will be published the week of June 3, 1996. To submit items for this issue, call the College of Engineering and Computer Science, 405 Russ Engineering Center at 513-873-5001, or E-Mail kthis@delta.cs.wright.edu by May 22, 1996.

1996 Recognition/Awards Ceremony

The College of Engineering and Computer Science will host its first Recognition/Awards Ceremony on Friday, June 7 in the Berry Room of the Ervin J. Nutter Center at 5 p.m. This new recognition/awards ceremony *will replace the awards banquet normally held in May.*

A small reception will follow the awards presentations. All students, faculty, staff, and their family and friends are invited. The event is free to all attendees.

Please complete and return the reservation form on Page 5 by Friday May 24 so we can plan for adequate seating and refreshments.

AGENDA

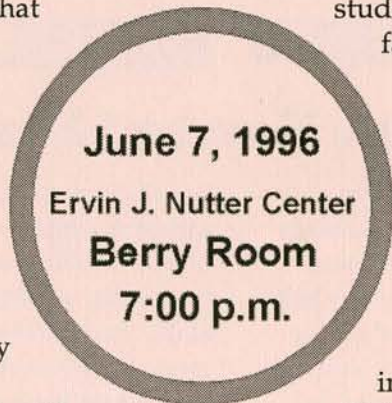
- Recognition of:
 - students graduating with university and/or department honors
 - scholarship recipients
- Awards Presentation
 - outstanding Bachelor of Science students
 - faculty awards

For more information about the new awards ceremony, contact the College Office at 873-5001.

Order of the Engineer Ring Ceremony

The Order of the Engineer, Inc. is an organization that seeks to promote professionalism among engineers and graduates of accredited engineering and college programs.

The next induction ceremony will be held on Friday, June 7, 1996, at 7 p.m. in the Berry Room, Ervin J.



Nutter Center. Seniors, graduate students, alumni, and faculty are urged to keep this date open and plan to register to participate. Registration forms have been sent to students' home addresses.

For more information, contact the College office at 873-5001. Registration deadline is May 24.

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SCHOLARSHIPS AND FELLOWSHIPS

Society of Women Engineers

The Society of Women Engineers is accepting applications for its 1996/97 Freshman and Reentry Scholarship Programs. Seventeen scholarships totaling approximately \$50,000 are to be awarded to qualified candidates.

The **Freshman Program** consists of 15 scholarships for entering women engineering students.

The **Olive Salembier Reentry Scholarship** is designated to encourage and aid women in reentering the job market as an engineer after being out of the work force for a minimum of two years. Other reentry scholarships are available for a total of \$4,000.

All applications will be judged by a committee of at least five engineers, not connected with an engineering school, who represent different fields of engineering.

Additional information and scholarship applications are available in the Dean's Office, 405 Russ Engineering Center.

Deadline for submitting completed applications, which include all supportive material, is May 15, 1996.

National Research Council

The Fellowship Office of the National Research Council administers the following pre-doctoral fellowship programs:

Ford Foundation

Awards to U.S. minority citizens for study in research-based doctoral programs leading to careers in teaching and research at the university/college level.

Application deadline is early November.

Howard Hughes Medical Institute

Awards to U.S. citizens, nationals of the U.S., or foreign nationals for study in research-based doctoral programs.

Application deadline is early November.

U.S. Department of Energy

Awards to U.S. citizens or nationals for study in integrated systems of manufacturing with an aim of creating new manufacturing methods that will contribute to improved energy efficiency, better use of scarce resources, and less degradation of the environment.

Application deadline is early December.

Engineers Foundation of Ohio

The Engineers Foundation of Ohio is currently accepting applications for the Lloyd A. Chacey, P.E. Scholarship to be awarded for the 1996/97 academic year.

The Chacey Scholarship is a one-year grant for tuition and fees up to a maximum of \$2,000. The grant is renewable for one year provided the recipient maintains standards of academic progress and quality.

Qualified applicants must be a son, daughter, brother, sister, spouse, niece, nephew, or grandchild of a current member of the Ohio Society of Professional Engineers or a deceased member who was in good standing at the time of death. Applicants must also be enrolled full time at an Ohio college or university in an ABET accredited engineering curriculum and must achieve junior status by the end of the current academic year.

The application deadline is June 1, 1996. Application forms may be obtained from the College of Engineering and Computer Science, 405 Russ Engineering Center.



Is A Master's Degree Worth The Extra Time and Effort?

Well, that's a decision each individual must make on their own. Experts and industry executives, however, seem to agree that it probably is worth it.

A recent article which appeared in the *Dayton Daily News*, JOBS section, Wednesday, April 24

stated that, according to the National Association of Colleges and Employers, engineers with master's degrees are starting out with an average salary of about \$43,000—that's roughly 20 percent higher than starting salaries for engineers holding only a bachelor's degree.

The reason engineers holding master's degrees command a higher starting salary is because they learn additional engineering skills. Prospective employers are anxious to benefit from this additional knowledge by locating and hiring engineers with a master's degree.

DESIGN CLINIC

The College of Engineering and Computer Science developed a Design Clinic Program to give our undergraduates real-world consulting experience with industry.

Design Clinic participants receive design course and/or technical elective credit in their program of study. Participation also enhances employment opportunities upon graduation by providing relevant industry experience, faculty and industry references, technical team experience, and knowledge of positions which might be available

in the company sponsoring student projects.

To participate in the program, students must work as part of a team for three consecutive quarters, starting in fall 1996 on an industry-sponsored project. Students will enroll for four credit hours each quarter (fall '96, winter '97, spring '97) for a total of 12 credit hours.

Teams will have two advisors—one from the faculty and one from the sponsoring company.

Participants must meet the following minimum requirements:

- ◆ 140 credit hours completed in program of study prior to the start of fall quarter or plans to graduate prior to June 1998
- ◆ Cannot be graduating before June 1997
- ◆ GPA of at least 2.5

We anticipate having about 12 design projects beginning in the fall, which will require about 48 participating students.

Students wishing to participate may obtain an application form in the College Office, 405 Russ. For more information, contact your department chair, or Dean Brandeberry.



Student Government Report

As the weather turns warmer and we start making concrete plans for summer, let's not forget those final weeks of studying, planning, and—of course—politics. This month's big issues are tuition, budgets, and syllabi on the net.

Recently, our fearless student government president Toby Pinkerton addressed the Board of Trustees on the subject of tuition. Due to his excellent presentation, the Board has decided to postpone the proposed tuition increase until they can make a more informed decision. Please note that the tuitions listed in the Summer 1996 Class Schedule are incorrect. Read the small print and you will see that tuition is subject to change at the Board's discretion.

This whole situation has brought student concerns about tuition to Dr. Flack's attention. On May 8 at 11:30 a.m. in the Student

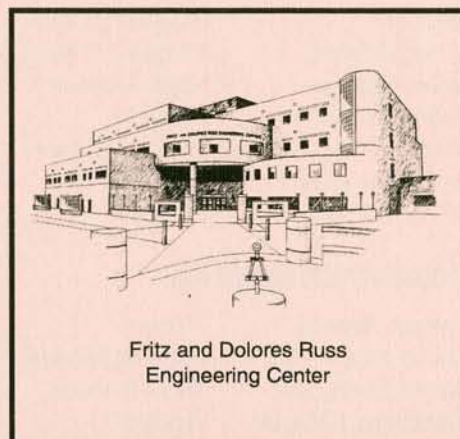
Union Cafeteria, Dr. Flack will answer questions about the budget and tuition. This is a great time to let our voices be heard. Currently, the state is also reducing capital budgets in higher education to fund stadiums. If you would like more information on how to get involved, stop by the Student Government Office.

On a more scholarly note, Student Government should have the syllabi of classes on the net. Follow links from the Wright State home pages.

Finally, the college will be having a softball game of faculty and T.A.'s against the students on Friday, May 10, at 3 p.m. in front of the Student Union. Come out to play, eat, or cheer on your favorite teachers.

Steve Poelzing

Your SGR Representative



Fritz and Dolores Russ
Engineering Center

Bits & PCs

College of Engineering and
Computer Science
Wright State University

Dean

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

Editor and Staff Writer

Karil S. This

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.

Dean's List — Winter Quarter 1996

BIOMEDICAL ENGINEERING

Michael Coyle	Honors
Anthony Ewald	Highest Honors
James Freyhof	Highest Honors
Kristie Johnston	Honors
Amy Judy	Honors
Jill Leighner	Highest Honors
Josh Noble	Highest Honors
Lisa Nopper	Honors
Goran Petrovski	Highest Honors
Dax Pitts	Highest Honors
Steven Poelzing	High Honors
Brian Ruhe	Honors
Stephanie Ryberg	Highest Honors
Everett Schaefer	Honors
Jason Shearn	Highest Honors
Angela Slaughter	Highest Honors
Jeanne Uy	Highest Honors

COMPUTER ENGINEERING

Matt Fox	Highest Honors
Quang Hoang	Highest Honors
Robert Kaeser	High Honors
Fateh Khan	Honors
Nathan Kragick	Highest Honors
Paul Niedermier	High Honors
Michael Pratt	Honors

COMPUTER SCIENCE

Patrick Arnold	Honors
David Dommett	Highest Honors
Karen Donoghue	High Honors
Kakanang Grimes	Honors
Ty Hayden	High Honors
Eric Hysong	High Honors
Eric Moyer	Highest Honors
Greg Underwood	High Honors
Michael Vanhorn	Highest Honors
Jeff Waltke	Highest Honors

ELECTRICAL ENGINEERING

Sean Allshouse	Honors
R. A. Aubuchon	Honors
Ryan Blume	High Honors
Shane Boroff	Highest Honors
Shawn Davidson	High Honors
Michael Ellinwood	High Honors
Gordon Fenton	Honors
Dominique Figiel	Highest Honors
Jennifer Foley	Highest Honors
Ethan Frazier	Highest Honors
Chad Gaier	Honors

Todd Hemmert	Honors
Steve Henry	Highest Honors
Matthew Hiatt	High Honors
Kurt Keener	Honors
Paul Kladitis	Highest Honors
Nicole Kolb	Honors
Chi-Sing Lo	High Honors
Thomas Matz	Highest Honors
Kouhyar Mostashfi	High Honors
Michael Ogden	Highest Honors
Geeta Pujara	Highest Honors
Jevon Reynolds	Honors
Brett Smith	Highest Honors

ENGINEERING PHYSICS

Cornelius Brinegar	Highest Honors
Richard Burns	High Honors
Gregg Jessen	High Honors
Edward Schumaker	High Honors
Dennis Walker, Jr.	Highest Honors

HUMAN FACTORS ENGINEERING

Gilbert Bandry	Highest Honors
Maureen Cox	High Honors
Loc Du	Honors
P. Joseph Gilkerson	Highest Honors
Michelle Heider	High Honors
Craig Kline	High Honors
Roger Little	High Honors
Marc McDaniel	Honors
Kristy Robeson	High Honors
Cody Schaff	Honors
Amy Schmackers	Highest Honors
Scott Spangler	Honors
Sydney Weikert	Highest Honors
Marcus Whitehead	Honors

MATERIALS SCIENCE & ENGINEERING

Michael A. Jackson	High Honors
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MECHANICAL ENGINEERING

Walter Araya	Highest Honors
Brian Arbogast	High Honors
Craig Brown	Honors
David Clark	Highest Honors
Dwight Dean	High Honors
Andrew Fenlon	Honors
Jeremy Geaslen	Honors
Andrew Hall	High Honors
David Henn	High Honors
Craig Hill	Honors

Randall Knick	Honors
Hiroshi Kobayashi	High Honors
Peter Koch	Honors
Richard Lykins	Highest Honors
Christopher Monnin	Honors
Robert Muhlenkamp	Highest Honors
Steven Ray	Highest Honors
Roy Reed, Jr.	Honors
Joseph Scheckel	Honors
Michael Shepard	Highest Honors
Robin Steininger	Highest Honors
Jenner Torrence	Highest Honors
Cyle Ward	High Honors

PRE-COMPUTER ENGINEERING

Steven Brown	Highest Honors
Rick Lane, II	Highest Honors
Keith Naas	Highest Honors
Dung Pham	Highest Honors
Gamini Ranathunga	Highest Honors
Pulasthi Seneviratne	Honors

PRE-COMPUTER SCIENCE

David Abel	Honors
Joel Dallaire	Honors
Sam Huwer	High Honors
Aaron Knapp	High Honors
Jon Knapp	Highest Honors
William Landers	Honors
Marcella McDade	Honors
Michael McNutt	Honors

PRE-ELECTRICAL ENGINEERING

Wendell Booth	Honors
Marc Davis-Marsh	Highest Honors
Gregory Donahue	Honors
David Hines	Highest Honors
Jeremiah Mattingly	Highest Honors
Bryan Mazey	Honors
Matthew Nelms	Honors
Douglas Sattler, Jr.	Highest Honors
Michael Updike	Highest Honors

PRE-MECHANICAL ENGINEERING

Dora McCarty	Honors
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PRE-ENGINEERING—UNDECIDED

Joshua Boone	Honors
John Westbeld	High Honors
Justin Zimmer	Honors

Wright State University College of Engineering and Computer Science

**Recognition and Awards Ceremony
Friday, June 7, 1996
5:00 p.m.**

Berry Room — Ervin J. Nutter Center

**Come, applaud for those who are having their
hard work recognized and awarded and celebrate
with everyone in our College family.**

- ◆ **Reception will follow the ceremony**
- ◆ **No fee for attending either the ceremony or
the reception**

Remember!

Because we'll miss you if you aren't there!

For more information, contact the Dean's Office, 405 RC, 873-5001.



**College of Engineering and Computer Science
Recognition and Awards Ceremony
Friday, June 7, 1996**



To RSVP, please return this portion by May 24 to Wright State University Office of Conferences and Events, Room E180 Student Union, 3640 Colonel Glenn Highway, Dayton, OH 45435.

Name _____

Number Attending:

_____ students _____ alumni _____ faculty _____ staff _____ guests

FACULTY FACTS

A.A.S. Awwal, Ph.D. (CSE) coauthored a paper entitled "Discretized amplitude modulated phase-only filter," in *Optics & Laser Technology*, Vol. 28, No. 2, 1996. >

Marian Kazimierzczuk, Ph.D. (EE) and R. C. Cravens II have published "Current-source parallel-resonant dc/dc inverter with transformer," in *IEEE Transactions on Power Electronics*, Vol. PE-11, pp. 275-284, March 1996. >

Marian Kazimierzczuk, Ph.D. (EE), R. C. Cravens II, J.A. Weimer and S. Fries-Carr have published "Frequency characterization of super capacitors" in the *16th Capacitor and Resistor Technology Symposium*, New Orleans, LA, March 11-15, pp. 209-217. >

A. Massarini and Marian Kazimierzczuk, Ph.D. (EE) have published "Modeling the parasitic capacitance of inductors," in the *16th Capacitor and Resistor Technology Symposium*, New Orleans, LA, March 11-15, pp. 209-217. >

Krishna Naishadham, Ph.D. (EE) and X.P. Lin have published:

"A study of the optimum compensation of open microstrip discontinuities using the FDTD method with boundary reflection error cancellation" in *International Journal of Microwave and Millimeter-Wave Computer-Aided Engineering*, Vol. 6, No. 1, pp. 47-57, January 1996; and

"Minimization of Reflection Error Caused by Absorbing Boundary Condition in the FDTD Simulation

of Planar Transmission Lines" in the *IEEE Transactions on Microwave Theory and Techniques*, Vol. MTT-44, No. 1, pp. 41-46, January 1996. >

Krishna Naishadham, Ph.D. (EE) and **Pradeep Misra, Ph.D. (EE)** have published "Order Recursive Method of Moments for Iterative Design Applications" in the *12th Annual Review of Progress in Applied Computational Electromagnetics*, Vol. 12, No. 2, pp. 750-756, March 1996. >

Krishna Naishadham, Ph.D. (EE) organized and co-chaired a session on Applications of Parallel Computing at the Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, March 1996. >

Faculty, staff and students are encouraged to sit at Ty D. Upp's desk and offer comments and suggestions for the occupants of the Russ Engineering Center. Contact kthis@delta.cs.wright.edu or stop by the Office of the Dean, 405 Russ Engineering Center if you'd like to speak for Ty D. Upp.

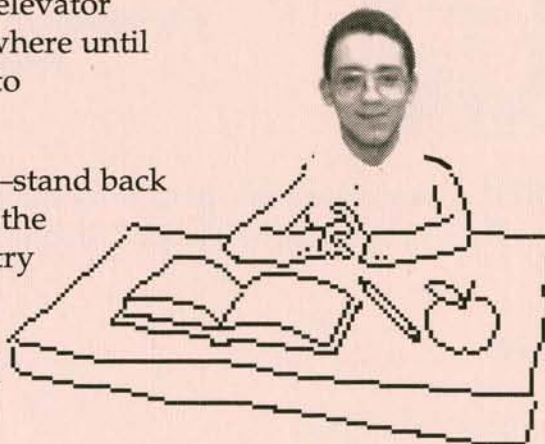
Ty D. Upp says.

We all get in a hurry sometimes and forget to exercise our courtesy muscles.

Just remember getting *on* the elevator quickly doesn't mean you're going to go *up* (or down) quickly. The elevator won't be going anywhere until passengers are able to disembark.

So be courteous—stand back and let everyone *off* the elevator before you try to get on. This will help ensure a smoother ride for all of us!

Please be courteous and let others exit the elevators before you try to enter them!



This month, the voice of Ty D. Upp is Randall Knick, Sophomore, Mechanical Engineering. Thanks Randall!

CONSERVE ENERGY

Turn off the juice when not in use!

EMPLOYMENT OPPORTUNITIES

The SOCHE Student Support Program has positions available at Wright Patterson Air Force Base and AFIT. Positions are available in the areas of Metallic Composites, Morphology of Novel Material Systems Developed In-House, Consolidation of Micromechanical In-Plane Cracking Computer Code, Electrical and Magnetic Properties of High Temperature Superconductors, and Turbulence Sensing and Correction for Optical Systems. All positions offer flexible work schedule, challenging research, and professional settings.

Potential candidates should be U.S. citizens, sophomore through graduate students, and seeking degrees in chemical, materials, or mechanical engineering.

Interested individuals should contact the SOCHE Student Support Program at 259-1375.

NCR is looking for graduate or fourth-year undergraduate computer science majors to work in the Technology Research Group. Positions can be either full-time summer internships or continuous part-time.

Successful candidates will be conducting library research, internet searches, and possibly be involved in visual basic

programming. Applicants must be computer (Windows) literate with experience in Microsoft Word, PowerPoint, Excel, or equivalent.

Interested individuals should contact Ed Scott at NCR, 445-3715.

Wright Patterson Air Force Base, Civilian Personnel Division is anticipating vacancies in the following full-time positions:

Aerospace Engineer

Grade: GS-0861-05 (Target GS-12)

Salary: \$24,805 per annum
This is a trainee position. Assignments provide progressive training and allow the engineer to gain experience in technical programs, work methods, and operating procedures.

Electronics Engineer

Grade: GS-0855-05 (Target GS-12)

Salary: \$24,805 per annum
This is a trainee position. Assignments provide progressive training and allow the engineer to gain experience in technical programs, work methods, and operating procedures.

For more information and application details, contact the Dean's Office at 405 Russ.

WSU Career Services has information about career opportunities with **Rockwell International** in Cedar Rapids, Iowa. Rockwell has approximately 100 openings for software, hardware, and systems engineers. They offer competitive salaries and excellent benefits.

Come to The Office of Career Services, 126 Allyn Hall, to view a brief video giving information regarding careers with Rockwell International.

Anyone interested in this or other career opportunities should contact Reva Cosby, Assistant Director, Career Services, at 873-2556.

To facilitate graduates entering the aerospace industry, a resume posting service has been added to the Aerospace Consulting and Subcontractor Registry (ACSR), an aerospace industry service side on the Internet. Registration will provide your resume visibility to a wide range of large and small firms in the aerospace industry.

Online registration is free. Fax registration incurs a \$10 setup fee. Fax your request for a Student Registration Form to 714/720-7403. For more information and online registration visit the Web site at <http://www.eme-registry.com> and use this site as a gateway to aerospace sites on the internet.

ATTENTION HIGH SCHOOL STUDENTS

Visit the Russ Engineering Center
A Best Kept Secret in Ohio Education!

The \$20 million **Fritz and Dolores Russ Engineering Center** located on the campus of Wright State University opened in 1992 and features state-of-the-art laboratory and teaching facilities for the College of Engineering and Computer Science.

◆ **National Engineering Aptitude Search + (NEAS +)**

May 13 – Time: 9–11 A.M.

Guidance-oriented self-assessment survey to help students in grades 9 through 12 determine their aptitude for engineering, math, or science study in college.
Pre-registration fee of \$5 required.

◆ **Shadow Program**

Spend a day on campus with an engineering or computer science student.
his program will be in effect from January 2 through May 18, 1996.

Call Dick Rathbun, Assistant Dean, 513/873-5001 for more information or a personal tour of the Russ Engineering Center.



Wright State University

College of Engineering and Computer Science
3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001

Office of the Dean