

4-1-1995

## Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 11, Number 4, April 1995

Wright State University College of Engineering and Computer Science

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# BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

April 1995

Wright State University Dayton, Ohio 45435

Vol. 11 No. 4

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. The next issue will be published the week of May 1, 1995. Submit items to be included in this issue to the College of Engineering and Computer Science office, 405 Russ Engineering Center, by April 21, 1995.

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 1995 on an industry-sponsored project.

The team will have two advisors – one from the faculty and one from the sponsoring company.

They will enroll for four credit hours each quarter (fall '95, winter '96, spring '96) for a total of 12 credit hours.

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 '97.
- Cannot be graduating before June '96.
- GPA of at least 2.5

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

Students wishing to participate should immediately contact their department chair, or Dean Brandeberry in the college office, 405 RC.

## DESIGN CLINIC



The College of Engineering and Computer Science devel-

oped a Design Clinic Program to give our undergraduates real-world consulting experience with industry.

During this academic year, we have run a pilot program with six design clinic projects involving 24 students and six faculty.

Because this effort was such a tremendous success, we have decided to expand the program next fall to allow more students to be involved.

Students who participate in the design clinic program receive design course

# YOU'RE INVITED



## 16TH ANNUAL AWARDS BANQUET

Mark your calendar and plan to attend the 16th ANNUAL AWARDS BANQUET sponsored by the College of Engineering and Computer Science.

The event is scheduled to be held in the Multipurpose Room of the Student Union on May 19, 1995, with a social hour beginning at 6 P.M. and dinner at 7 P.M..

The annual banquet celebrates the scholastic achievements of our students and also recognizes the accomplishments of our faculty in the areas of teaching, service, and research. Registration forms will be sent to student mailboxes, or you may contact the college office at 873-5001 for additional information.

**DID YOU KNOW** that the number of individual tax returns filed electronically in 1994 was 13.5 million? **DID YOU KNOW** that the IRS estimate of the time required to complete Form 1040, including record-keeping is 11 hours, 35 minutes? **DID YOU KNOW** that the number of taxpayers who filed for extensions in 1994 was 4.8 million. **DID YOU KNOW** that April 17 is the deadline for filing taxes for 1995? (Smart Money, April 1995)





Ty D. Upp says, "Help keep the Russ Engineering Center spic and span. Pick it up and pitch it in."

## SAE AEROSPACE ATLANTIC Student Presentation Contest

### Prizes

SAE Dayton Section Scholarships: first Place - \$500; Second Place \$250.

### ELIGIBILITY

All undergraduate and graduate students in the Dayton, Columbus and Cincinnati areas are eligible.

### REQUIREMENTS

- A 500 word abstract submitted in advance is required to attend.
- The work must be the student's own, and it must pertain to the automotive or aerospace industries, such as alternative fuels, dual-use technologies, intelligent vehicles, etc.

### TIME ALLOTTED

The presentations will be a maximum of 15 minutes each.

### JUDGING

The scholarships will be awarded on the basis of the quality of the presentation.

### CONTACT

Submit abstracts to Dr. Scott K. Thomas, Department of Mechanical and Materials Engineering, 513/873-5142, Fax 513/873-5009.

## LAST CALL FOR STUDENT TECHNICAL PAPERS

The Engineers Club of Dayton and the Engineers Club of Dayton Foundation announce the 1995 Ernal C. "Ernie" Frazee Student Paper Program. A \$200 cash award and a one-year membership in the Engineers Club of Dayton will be presented to the authors of the winning undergraduate paper and the winning graduate paper.

The faculty advisor for each winner will also receive a one-year membership to the Engineers Club of Dayton.

Students at engineering/technology degree institutions in the Dayton area are eligible to enter. Winning authors will be invited to present their papers to the Engineers Club membership. The winning papers and selected runner-up papers may be published in *The Dayton Engineer*.

**Five (5) copies of each paper must be received for review by April 30, 1995.**

### RULES

1. The paper may be based on the student's Ph.D. dissertation, MS thesis, senior design project, independent study project, etc. It may be a review or tutorial and need not involve original work. It should be prepared solely for this competition and not be coauthored or previously submitted as a paper.
2. The paper should be no more than 9 double-spaced typed pages. (Longer papers will not be considered). In addition, a one-page synopsis of the paper should be provided.
3. The paper should be prepared in a style suitable for publication in a technical journal (*IEEE*, *ASME*, etc.)
4. The paper should be written for a general engineering audience. It should present the topic in an interesting informative and generally understandable manner. A reader should not have to be an expert or specialist in the subject matter presented to understand the paper content.
5. Authors should provide a brief, one-page resume which includes student's

status (undergrad, grad, co-op, part-time, etc.), academic major, faculty advisor, permanent address, and phone where student can be reached, and a statement releasing the paper for publication and presentation.

6. The paper judging criteria are: (a) written in an interesting manner; (b) written in an informative manner (c) understandable by a general engineering audience; (d) written in a style suitable for technical journal publication.

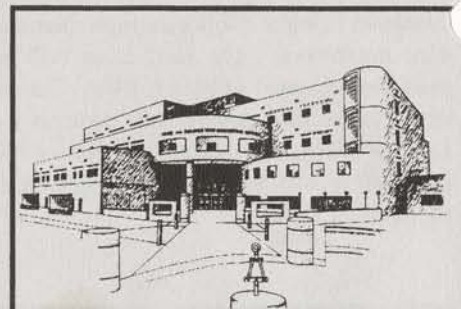
7. Oral presentation may include information not contained in the paper.

8. To be eligible, an author must currently be a student or have graduated after June 1, 1994. The paper must have been written while the author was a student.

Send five copies to:

Larry Shpiner, Vice President  
Engineers Club of Dayton  
110 East Monument Avenue  
Dayton, Ohio 45402

**Deadline for entry is April 30, 1995**



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**  
Sharon Coates

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.



# FACULTY FACTS

**A.A.S. Awwal, Ph.D. (CSE)** received a \$10,000 NASA Grant with Central State University for his proposal, "Automated Target Acquisition, Recognition and Tracking." >

**Henry Chen, Ph.D. (EE)** received funding in the amount of \$100,148 from USAF: Wright Laboratory for his proposal, "VLSI Testability Tool (VTST)." >

**Soon M. Chung, Ph.D. (CSE)** has the following publications:

"Discrimination Network for Condition Matching in Object-Oriented Database Rule Systems," Proc. of ACM Symposium on Applied Computing, ACM Press, 1995, pp. 51-55 (with M. Caabouni)

"Schema Integration for Multidatabases Using the Unified Relational and Object-Oriented Model," Proc. of ACM Computer Science Conference, ACM Press, 1995, pp. 208-215. (with P. Mah) >

**Parviz Dadras, Ph.D. (ME)** received funding in the amount of \$6,252 from Applied Sciences, Inc. for his proposal, "FEM Modeling for Brazing." >

**Fred Garber, Ph.D. (EE)** received funding in the amount of \$2,097 from the Ohio Aerospace Institute for his proposal, "Feature-Based Automatic Target Recognition" >

**Ramana Grandhi, Ph.D. (ME)** received funding in the amount of \$20,000 from Caterpillar, Inc. for his proposal, "Caterpillar Track Link Forging Operation." >

**Chandler Phillips, M.D. (BHE)** received funding in the amount of \$10,000 from the National Science Foundation (NSF) for Bioengineering Design Projects for the Disabled. >

**T.K. Prasad, Ph.D. (CSE)** received funding in the amount of \$25,000 from the Air Force Office of Scientific Research (AFOSR) for his proposal, "VHDL-93 Parser in SWI-Prolog." >

**Thomas Sudkamp, Ph.D. (CSE)** received funding in the amount of \$4,169 from the Miami Valley Research Institute for his proposal, "Real-Time Traffic-Adaptive Signal Control Prototype." >

## 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 9 at 7 P.M. in the lobby of the Russ Engineering Center. Seniors, graduate students, alumni, and faculty are urged to keep this date open and plan to register to participate. Registration forms will be sent to student mailboxes

For more information, contact the college office at 873-5001. Registration deadline is May 15.

### TEACHING

#### EFFECTIVENESS AWARD

The Teaching Awards Committee is seeking your input for recognizing effective teaching in the College of Engineering and Computer Science.

Please fill out the form included in this issue and return it to room 158 RC.

### READING ROOM SCHEDULE

The Periodical Reading Room (404 RC) is open from 11 A.M.-1 P.M., Monday through Thursday. You are welcome to visit it during the open hours.

### WRITING CENTER WORKSHOPS – Spring Quarter 1995

#### April Workshops

Mon.	Apr. 3	11 A.M. - 12 Noon	Punctuation Review
Thurs.	Apr. 6	3-4 P.M.	Sentence Structure
Tues.	Apr. 11	1-2 P.M.	APA Format
Wed.	Apr. 12	10-11 A.M.	Grammar Review
Mon.	Apr. 17	10-11 A.M.	MLA Format
Wed.	April 19	11 A.M. - 12 Noon	Essay Exam
Mon.	April 24	11 A.M. - 12 Noon	Sentence Structure
Tues.	April 25	2-3 P.M.	Punctuation Review

#### May Workshops

Thurs.	May 4	2-3 P.M.	Grammar Review
Mon.	May 8	11 A.M. - 12 Noon	APA Format
Wed.	May 10	10-11 A.M.	Turabian Document.
Tues.	May 16	2-3 P.M.	MLA Format
Thurs.	May 18	2-3 P.M.	Essay Exam

To register for the University Writing Center Writing Workshops, phone 873-4186 or stop by 025 Library. Seating is limited to 15.





## GREETINGS FROM YOUR STUDENT GOVERNMENT REPRESENTATIVE

Welcome back everyone! I hope you got the most out of your spring break and you are ready to start spring quarter. Here are some things you can look forward to doing this quarter: The AIDS Quilt and the NAMES Project. Panels of the AIDS Quilt are coming to Wright State on April 27 and 28. At the same time, people will be reading names of individuals who have died of AIDS.

While this is not going to be cheerful, it should be an experience not to be missed. Later this quarter, the WEC Student Activities Board (SAB ) will be organizing a car wash (perfect after a day in our dirty parking lot) and also a cookout. Everyone is invited to participate in both events.

In addition to these events, the responses to the Computer Fee Proposal are in. The Wright Engineering Council Representative Assembly has looked through them and made small revisions to the original plan. Basically, students didn't want to pay for something (namely, good computers) that anyone else on campus would get for free. What happened to the proposal? I encourage you to attend a meeting of an engineering or computer science society and find out. These organizations are AIAA, ACM, ASME, BMES, HFES, IEEE, IEEECS, OSPE, SAE, SWE, and Tau Beta Pi. These organizations are the ones to decide what will happen to the proposal – if it should fail or if you'll see another fee on your bill in the fall. Any opinions on the proposal should be given to them.

I would like to take some space now for thanks and congratulations. Congratulations to Byung Suk Kim, "MEMBER OF THE WINTER QUARTER" for the Wright Engineering Council Student Activities Board. He's done a lot for the WEC SAB, working as a historian, and member of the Egg Drop and Bloodfest '95 committees. He's done a lot of work that even those of us with free time would not want to do and I, for one, am thankful. Congratulations to Jamey Teaford who has been selected as Member of the Month for February, 1995. Jamey did an outstanding job with our Engineering Week activities and is in charge of the upcoming junior high school Egg Drop Competition.

Also, congratulations to Dr. Brian d'Auriol and Eric Ngouyassa for putting in a lot of work to get the student chapter of the Institute of Electrical and Electronics Engineers Computer Society (IEEECS) off the ground. Although the organization is still small and is having joint meetings with the Association for Computing Machinery (ACM), I am very pleased with their initiative. If anyone is interested in joining either organization, or any other organization mentioned in this letter, stop by 163 Russ for more information.

I'll see ya around!

*NN Schneider*

CECS Student Government  
Representative



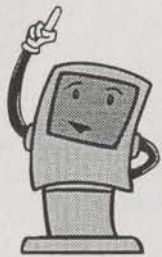
Byung Suk Kim  
WEC Member of the  
Winter Quarter, 1995

*WEC Teaford!*



Jamey Teaford  
WEC Member of the Month for  
February, 1995.





## NEW POLICY

The following policy is now in effect for the College of Engineering and Computer Science.

Each quarter, student computer accounts will be reviewed, and accounts of persons not enrolled in the university for that quarter will be disabled. The accounts will remain on-line, and will be reenabled if the person reenrolls in the university.

Accounts that remain disabled for three consecutive quarters will be backed up and removed from the system.

Depending on the availability of resources, the policy may not be enforced during summer quarters.

*This policy was adopted by the College Computing Committee January 23, 1995 and approved by the College Steering Committee March 3, 1995.*

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## CONSTRUCTOR FOR A DAY PROGRAM – APRIL 20, 1995

The Ohio Contractors Association announces the sixth statewide Constructor for a Day Program.

Students and faculty advisors are invited to participate in a full day which will include local tours of construction projects, visits to company offices/yards and opportunities for students to personally talk with upper management personnel and owners of construction businesses.

For additional information contact the college office at 405 RC.

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## STUDENT SUPPORT PROGRAM (SOCHE) POSITIONS AVAILABLE

Available at AFIT – WPAFB.

1. Network modeling of system reliability. Develop a graphic interface that makes the modeling of throughput/reliability more user-friendly thus bridging the gap that often exists between the users and the modelers.

2. Design and implement efficient algorithms for computing and displaying constant energy trajectories on momentum spheres for spacecraft with multiple momentum wheels.

### Requirements

- Majors: Computer science, physics, mechanical engineer with computer programming skills.
- Undergraduate to graduate student in good standing.
- U.S. citizen or foreign student with Green Card.

### Available at WPAFB

**Description 121** – The student shall develop software that will be used to analytically explore compositions of optical materials to guide the in-house synthesis efforts. This software development task requires some knowledge of the chemistry of nonlinear optical materials and familiarization with the state-of-the-art analytical computational techniques.

### Requirements

- Majors: Computer science, chemistry with computer skills.
- Undergraduate to graduate student in good standing.
- U.S. Citizen.



**Description 131** – The student's research will investigate the E-O properties of binary, ternary and quaternary semiconductor and natural protein crystal structures. The focus of the work will be to design an adaptive engine that designs associatively experiments, and based on the results, builds subsequent causality experiments to optimize the design of a material for a given set of properties.

### Requirements

- Majors: Electrical engineering, computer science.
- Undergraduate to graduate student in good standing.
- U.S. citizen.

These positions will provide:

Career related work experience  
Research opportunities  
Salary of \$8.22 – \$12.60/hr.

For information on the above positions, contact Student Support Program at 513/259-1575.



## THINK FAST

Time is running out. The deadline to submit entries for the Suggestion for the Dean contest is April 15.

The purpose of this program is to solicit suggestions from students enrolled in the college about ways to improve the facilities and/or programs for engineering and computer science students.

Submit your entry in the suggestion box located near room 405 RC.



## COULD YOU GIVE US A HAND?

As part of our recruitment effort to reach prospective students, we are putting together a newsletter that will be sent to high school seniors.

We would like to include some comments, articles, and testimonials from current students who are majoring in engineering and computer science. The commentaries we are looking for would cover such topics as *Why I Chose WSU*, *The Co-op Experience*, *My Experience with the Design Clinic*, *Club Activities*, or any other area that a first year student would be interested in.

We find that high school students and their parents are very interested in getting a college student's perspective on the university experience.

With this in mind, we are soliciting YOUR help in providing input. Your observations can be in the form of an article, a paragraph, or just a few sentences. Please take a few minutes to help us with this project.

Stop by 405 RC and talk to Dick Rathbun, Assistant Dean, or contact him at [drathbun@delta.cs.wright.edu](mailto:drathbun@delta.cs.wright.edu).



# SCHOLARSHIPS and FELLOWSHIPS

## LLOYD A. CHACEY, P.E. SCHOLARSHIP

The Lloyd A. Chacey, P.E. Scholarship is a one year grant in the amount of \$2,000.

### Eligibility Requirements:

- Must be a son, daughter, brother, sister, spouse or grandchild of a current member of the Ohio Society of Professional Engineers or so related to a deceased member who was in good standing at the time of his or her death. Student members are not considered OSPE members for purposes of awarding this scholarship.
- Must be enrolled full-time at a college or university in Ohio, in an ABET accredited engineering curriculum leading to a B.S. degree in Engineering.
- Must achieve junior status at the end of the academic year in which the application is submitted. Academic seniors will not be considered.

Additional information and application is available in room 405 RC. **DEADLINE is June 1, 1995**

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## U.S. AIR FORCE ATTN: Seniors Applying for Medical School

The U.S. Air Force has scholarships available for medical school. Some of the benefits are:

- Payment of full tuition and required educational fees at any accredited allopathic or osteopathic school in the United States or Puerto Rico.
- Reimbursement for approved books, supplies, microscope rental, and issue of small equipment, required for course of study pursued.
- A stipend for ten and one-half months each scholarship year.

For more details and to see if you qualify, contact Ssgt. Bobby Smith at 513/426-2116 today.

## ARGONNE NATIONAL LABORATORY PROGRAM ANNOUNCEMENTS

All programs are sponsored by the US Department of Energy  
**Laboratory-Graduate Research Program**

The program is for graduate students who wish to carry out their thesis research at Argonne under the co-sponsorship of an Argonne staff member and a faculty. Basic research programs are in physical and life sciences, mathematics, computer science and engineering.

Eligibility: GPA of at least 3.0, US citizen or permanent resident alien status, junior, senior or first-year graduate student standing. Applications may be submitted any time during the year and an appointment may commence at any time.

Send inquiries to the Laboratory-Graduate Research Program at the address below.

### Faculty Research Leave at Argonne Program

Eligibility requirements for this program are the same as for Faculty Research Participation, but this is an appointment for the academic or calendar year.

Send inquires to the Faculty Research Leave at the address below.

### Thesis-Parts Program/Guest Graduate Program

This program is for graduate students wishing to visit Argonne for periods from a few days to a few months, so that they may utilize special laboratory facilities or capabilities during the course of their thesis research.

Eligibility: GPA of at least 3.0. US citizen or permanent resident alien, junior, senior or first-year graduate student standing.

Send inquiries to Thesis-Parts Program/Guest Graduate Program at the address below.

Division of Educational Programs  
Argonne National Laboratory  
Argonne, Illinois 60439-4845  
Telephone 708/252-4579

## U.S. DEPARTMENT OF ENERGY

Many opportunities for fellowships for students and faculty are available through the U.S. Department of Energy. Among these are:

### High Temperature Materials Laboratory (HTML) Faculty Fellowship Program

**Requirement:** Full-time academic staff member.  
Location: Oak Ridge National Laboratory (TN)  
Contact: Ernestine Friedman, 615/576-2358

•••••

### High Temperature Materials Lab Grad Student Fellowships

**Requirement:** Ph.D. candidates at the university and/or at the HTML, TN.  
Contact: Kathy Ketner, 615/576-3426

•••••

### Advanced Industrial Concepts (AIC) Materials Science Program

Provides fellowships for students to complete master's level degree.  
Participants: African American or Native American graduating seniors and graduate students who have not completed their first year.  
Contact: Deborah McCleary

•••••

### Fossil Energy Professional Internship Program.

Full-time and part-time opportunities for master's or doctoral students  
Location: Pittsburgh Energy Technology Center (PA)  
Contact: Kathy Ketner 615/576-3426

•••••

### Graduate Student Research Participation Program

Participants: Graduate degree students  
**Contact:** Kathy Ketner 615/576-3426

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### Laboratory Graduate Participation Program

Participants: Graduate students who have completed all degree requirements except thesis or dissertation research.  
Contact: Kathy Ketner, 615/576-3426



## NAVY ENGINEERING PROGRAMS

How many corporations are willing to offer you

- over \$1,450 per month pay and allowances
- 100% medical and dental coverage
- 30 days paid vacation each year
- opportunity for world travel....

while still in your junior and senior year?

Student benefits include:

- earn \$14,000 a year for up to two years while still a student to use any way you choose
- An additional \$4,000 bonus paid when you enter the program
- No drills, uniforms or summer obligations while in school

Not everyone has the opportunity, but **YOU** could, in the **NAVY'S NUCLEAR PROPULSION OFFICER CANDIDATE PROGRAM.**

The entrance requirements for a program of this caliber are high. You must be an engineering, math, physics or chemistry major with a GPA of 3.3 if you are a junior, or 3.0 for seniors. In addition, you must have completed one year of calculus and one year of calculus-based physics.

For all details and more information call toll free 1-800-527-8836.

## FIND/SVP TOOLS FOR THE FUTURE

FIND/SVP Tools for the Future's \$25,000 Scholarship Program includes two \$5,000 top awards with 40 hours of FIND/SVP research services and a paid summer internship, as well as six \$2,500 awards.

Applicants must currently be enrolled or anticipate full or part-time enrollment in an undergraduate or master's degree program in an area related to business, library science, computer technology, information studies, market research or journalism/communications in the fall of 1995 and be a legal resident of the U.S.

Applications are evaluated on the following basis:

50% Presentation on role of knowledge in the workplace of the 21st century.

20% letters of recommendation.

20% Activities (extracurricular and employment).

10% Academic record.

**Application Deadline - April 28, 1995.**

Applications are available in the college office, room 405 RC

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## CHARLES E. MINOR FELLOWSHIP PROGRAM FOR ENGINEERING DOCTORAL STUDIES

Virginia Tech's Charles E. Minor Fellowship Program provides qualified women, minorities and students with disabilities an opportunity to pursue a doctorate in engineering.

Each fellow selected will receive a stipend of \$15,000 per year, with tuition and fees paid.

Additionally, \$5,000 per year is available for use in research related expenses such as laboratory supplies and travel.

For further information or to request an application, contact:

Dean of Research and Graduate Studies  
333 Norris Hall  
Virginia Tech  
Blacksburg, VA 24061-0217  
Tel. 703/231-6641

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## 1995 NASA GUIDE TO GRADUATE SUPPORT

A booklet outlining general information about the 1995 NASA Graduate Student Researchers Program is on file in the college office, room 405 RC. Interested people may stop in and look at this book.

## RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU)

*June 5 - August 11, 1995*

This program is an opportunity for talented undergraduates in technical disciplines to gain experience through hands-on research. If you qualify, you could spend the summer at the Engineering Design Research Center (EDRC), a National Science Foundation Engineering Research Center, at Carnegie Mellon University in Pittsburgh, working on cross-disciplinary research projects in engineering design. You will receive a generous stipend and housing for ten weeks.

To be eligible, you must be a U.S. citizen in your junior or senior year during the Fall '95 term and have an outstanding academic record.

For application information call 412/268-3372 or FAX 412/268-5229.

**Application Deadline is May 1, 1995.**

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## MARILYN LLOYD SCHOLARSHIP AND FELLOWSHIP PROGRAM

This program is supported by the U.S. Department of Energy and administered by Oak Ridge Institute for Science and Education. Its purpose is to meet the Department of Energy's personnel needs in the areas of environmental protection, restoration, and hazardous mixed and radioactive waste management.

The program supports A.S., B.S., and M.S. students seeking education in areas supportive of DOE's environmental restoration and waste management mission. Major academic engineering disciplines are chemical, civil, electrical, environmental, materials, mechanical, metallurgical, and nuclear.

Scholarships in support of undergraduates and fellowships for graduate study are available for a 12 month period and may be renewed for up to an additional 12 months. Graduates from the program are required to work for the DOE for one year for every year of educational support. Applications are available in the Office of Financial Aid, E136 Student Union.

**Deadline to apply is May 31, 1995.**



*SAE The Engineering Society for Advancing Mobility Land Sea Air and Space*  
**INTERNATIONAL SCHOLARSHIPS**

**DOCTORAL SCHOLARS  
PROGRAM**

This program is sponsored by the SAE Foundation and the Chrysler Fund and is to assist and encourage promising engineering graduate students, who are citizens of North America (U.S., Canada, or Mexico), to pursue careers in engineering teaching at the college level.

For each year of teaching, or appropriate proportion, one years loan will be forgiven. An amount of up to \$5,000 a year is available for up to three years for a total of \$15,000.

Eligible candidates must hold a degree from an institution with an accredited undergrad program, and be accepted into a doctoral program at the time of application.

**YANMAR/SAE  
SCHOLARSHIP**

Yanmar Diesel is the world's largest manufacturer of non-vehicle-use diesel engines,

with an engine turned out every 25 seconds. Eligibility and selection for their \$2,000 scholarship is as follows:

Applicants must be students entering their senior year of undergraduate engineering or enrolled in a post graduate engineering or related science program.

Applicants must be pursuing a course of study or research related to the conservation of energy in transportation, agriculture and construction, and power generation.

Emphasis will be placed on research or study related to the internal combustion engine.

Applicants will be judged on the basis of previous scholastic performance with additional consideration given for special study or honors in the field of the award and for leadership achievement related to engineering or science.

**LONG TERM MEMBER  
SPONSORED SCHOLARSHIP**

Four \$1,000 scholarships and one \$1,000 will be awarded to SAE student members who will be entering their senior year between August 1995 and February 1996.

Applicants must be nominated by either the SAE Faculty Advisor, SAE Section Chair, or the SAE Section Vice Chair of Student Activities.

These scholarships will be awarded purely on the basis of the nominee's support of SAE activities either at the university level or the section level.

Interested candidates should contact:

Lori Pail  
Educational Relations  
SAE  
400 Commonwealth Drive  
Warrendale, PA 15096-0001  
Phone 412/776-4841, ext. 403.

**Application Deadline: April 28, 1995**

**DOCTORAL TEACHING  
FELLOWSHIPS FOR WOMEN  
AND MINORITIES**

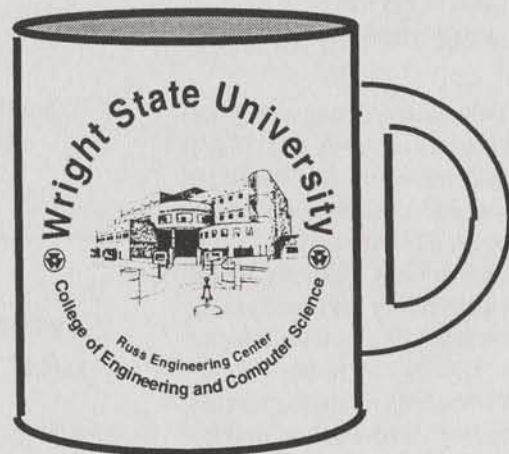
The College of Engineering at Drexel University offers doctoral teaching fellowships for women and minorities (male and female). These teaching fellowships provide \$15,000 in annual stipends and full graduate tuition of approximately \$12,000 per year.

The fellowships are awarded on a competitive basis to qualified Ph.D. applicants with M.S. degrees in engineering. The appointment carries up to 20 hours per week of teaching assignments.

For more information or to request an application please contact:

Dr. Nihat Bilgutay  
Associate Dean  
College of Engineering  
Drexel University  
Philadelphia, AP 19104  
Telephone: (215) 895-1269  
Fax: (215)895-5811  
bilgutay@ece.drexel.edu

The NEW marbled  
college mug  
is now available  
for sale in  
room 405 RC.



**\$5.00**

Supply is Limited - Designed for the College of  
Engineering and Computer Science by  
Tom Finkelstein, Ph.D.



**WRIGHT STATE UNIVERSITY**  
**College of Engineering and Computer Science**  
**Teaching Effectiveness Award**  
**1994-1995**  
**Student Response Form**

The Teaching Awards Committee is collecting data to support recognition of effective teaching in the College of Engineering and Computer Science. These data are being gathered from faculty, students, and alumni. May we have your nomination and supporting comments for the full-time faculty member who is the most effective teacher? You may nominate more than one faculty member by submitting additional nomination forms. Please do not nominate a faculty member more than once.

Nomination: \_\_\_\_\_

Please comment on the effectiveness of this teacher both in and out of the classroom, including how he/she made a difference to you.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Please deposit completed nomination form in the ballot box located in the Student Study Lounge, room 158 RC.



**Wright State University**  
**College of Engineering and Computer Science**  
**Faculty Listing**

**College of Engineering and  
Computer Science**

Brandeberry, James E., Dean  
Finkelstein, Leo

**Department of Biomedical and  
Human Factors Engineering**

Cacioppo, Anthony J., Chair  
Gallimore, Jennie  
Hangartner, Thomas N.  
He, Ping  
Narayanan, S.  
Phillips, Chandler A.  
Reynolds, David B.  
Rowley, Blair A.

**Department of Computer Science  
and Engineering**

Asthaigiri, Chandra  
Awwal, A.A.S.  
Chen, Jer-Sen  
Chen, Philip  
Chung, Soon Myoung  
d'Auriol, Brian  
Daniel, Johns  
Davidson, Daniel  
Davis, Henry W.  
Fernando, Joseph  
Jean, Jack  
Mateti, Prabhaker  
Meyer, Karen  
Prasad, T.K.  
Rizki, Mateen  
Ross, Charles B.  
Shock, Robert C.  
Spiegel, Daniel  
Stucki, David  
Sudkamp, Thomas A.

**Department of Electrical Engineering**

Chen, Henry  
Garber, Fred  
Hannen, Russell A.  
Hong, Lang  
Kazimierczuk, Marian K.  
McCormick, William S.  
Misra, Pradeep  
Naishadham, Krishna  
Pujara, Rai  
Rattan, Kuldeep  
Shaw, Arnab K.  
Shenoi, Belle  
Shiu, Greg (currently on leave of absence)  
Siferd, Raymond, Chair  
Spalding, George R.  
Wood, David  
Xue, Kefu

**Department of Mechanical  
and Materials Engineering**

Bethke, Richard, Chair  
Cornelius, Kenneth  
Dadras, Parviz  
Faghri, Amir (currently on leave of absence)  
Grandhi, Ramana  
Hankey, Wilbur L.  
Hong, Shane Y.  
Lieh, Junghsen  
Lipsitt, Harry  
Mehrotra, Gopal  
Slater, Joseph  
Srinivasan, Raghavan  
Thomas, J.F., Jr.  
Thomas, Scott  
Weiss, Isaac



# April 1995

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8 EIT EXAM
9	10	11	12	13	14	15 Sr. Summer Registration
16	17	18	19	20	21	22 Jr. Summer Registration
23	24	25	26	27 NEAS + EXAM	28	29 Soph. Summer Registration
30 Fresh. Summer Registration						

# May 1995

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Sr. Fall Registration
	1	2	3	4	5	6
7	8	9 NEAS + EXAM	10	11	12	13 Jr. Fall Registration
14	15	16	17	18	19 AWARDS BANQUET	20 Soph. Fall Registration
21 Fresh. Fall Registration	22	23	24	25	26	27
28	29 MEMORIAL DAY No Classes Offices Closed	30	31			



# ATTENTION HIGH SCHOOL STUDENTS

## 1995-1996 Shadowing Program

The 1995-96 Shadowing Program will be in effect from October 1 to November 17, 1995 and from January 2 through May 18, 1996. You can spend a day on the campus of Wright State University and get a taste of what it's like to be a WSU engineering or computer science student. You will be paired with someone in the college and go with that person to classes, labs, and meetings. **Experience the SHADOWING PROGRAM** sponsored by the Wright Engineering Council. For more information call 513/873-5001.

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## Academic Advantage Program

Academic Advantage is a new, innovative program especially designed for high school students who will graduate this spring and will enter computer science or engineering programs at Wright State University this fall. The program is offered by the College of Engineering and Computer Science to give students a leg up on math and science skills; study and success strategies; and basic computer literacy. It will be held on campus August 20-25, 1995. The cost of \$200 (if you register before May 1) or \$225 (if you register after May 1) covers room and meals, 30 contact hours of instruction, books and educational materials, and a computer account with Internet access. For application information contact Dick Rathbun, Assistant Dean, 513/873-5001.

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## NEAS +

NEAS + is an academic self-assessment survey for students in grades 9 through 12. The NEAS + will be given at WSU in the Russ Engineering Center on Thursday, April 27, 9-11 A.M. and Tuesday, May 9, 9-11 A.M. Registration fee is \$5. For additional information and registration material, contact the College of Engineering and Computer Science, 513/873-5001.

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**The College of Engineering and Computer Science welcomes inquiries from prospective high school students. For information about our engineering and computer science programs, or to arrange for a tour of the Russ Engineering Center, call Dick Rathbun, Assistant Dean, 513/873-5001.**



**Wright State  
University**

College of Engineering and  
Computer Science  
Dayton, Ohio 45435

Office of the Dean



**Egg Drop Contest for  
Junior High Schools  
Friday, April 28  
3:30 P.M.  
Lobby of the  
Russ Engineering Center**