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College of Engineering & Computer Science

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1994**

Wright State University College of Engineering and Computer Science

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BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

March 1994

Wright State University Dayton, Ohio 45435

Vol. 10 No. 3

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 April 8, 1994. Submit items to be included in this issue to the College of Engineering and Computer Science office, 405 Russ Engineering Center, by March 18, 1994.



BUILDING WATCH PROGRAM IN EFFECT

Ty D. Upp says, "Vandalism in the Russ Engineering Center is on the RISE."

"This is YOUR engineering center. It is inspected daily for maintenance problems and to insure that the rooms, laboratories, elevators, and lobby are clean and in first-class condition for YOUR use."

"Please do YOUR part to help us keep this first-class facility in tip-top condition. If you observe any individuals causing destruction to classrooms, laboratories, elevators, or the lobby, please report this to Dick Rathbun in 405 RC."

"Help our hard-working maintenance and cleaning staff! Join the Ty D. Upp BUILDING WATCH PROGRAM."

ATTEMPTS TO SABOTAGE STUDENT SUGGESTION PROGRAM FAIL

Vandals removed the suggestion box that was located in front of the Dean's Office. This box is being repaired and will be re-installed. In the meantime, you may turn your suggestions in to the Dean's Office, 405 RC.

The deadline to submit entries 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.



Appropriate awards will be presented for the best suggestions.

COLLEGE APPOINTS NEW ASSISTANT DEAN



Effective February 1, 1994 — David Fautheree, former Fiscal Affairs Officer for the College of Engineering and Computer Science assumed the position of Assistant Dean for Fiscal Affairs

and Director of Technical Support for the college. His office is located in room 405G Russ Engineering Center.

1994 SPRING COURSE OFFERING

ENGINEERING CREATIVITY

EGR - 499-01
3.0 Credit Hours
Fridays 1:30 - 4:30 p.m.

This course will show you how to increase your creative ideas, and how to work as a team to create solutions to problems and marketable products.

It will also provide case studies on the transfer of creative ideas to the marketplace. The course will be taught by K.C. Mosier, Chairman of the Board, Mosier Industries, and Dean James E. Brandeberry.

The United States still leads the world in Nobel prizes. Between 1976 and 1991, Americans won 63 of the 102 awards in chemistry, physics and medicine. The next closest countries, Britain and Germany, had nine each.

EE CONTROLS DESIGN SEQUENCE CHANGE

Digital Control Systems (EE 427) has been split into two, four-credit courses effective spring quarter 1994. Digital Control Systems (EE 417) will be offered at 11:00 a.m. – 12:15 p.m. on Tuesdays and Thursdays, with three choices for laboratory times.

Control Systems Design (EE 418) will be offered at 2:00 – 3:15 p.m. Tuesdays and Thursdays, with open laboratory times.

Both of these courses are required to complete the design sequence.

EE 417, is a prerequisite or corequisite to EE 418. EE 417 will be offered again summer quarter 1994 and EE 418 will be offered fall quarter 1994, with offerings on alternating quarters thereafter.

CENTRAL STATE UNIVERSITY 1994 SCIENCE SYMPOSIUM

The Twelfth Annual Science Symposium will be held on Saturday, April 16, 1994. The objectives are to provide a forum for area colleges and universities to share student scientific research that has taken place over the past year and to facilitate communications among area schools about scientific topics that are of interest and that affect us all.

Deadline to submit abstracts is March 14, 1994. For abstract forms or further information contact: Dr. Samuel Okunade, Banneker Hall, Room 312 Tel: 513/376-6455 or Dr. Jeff Crawford, Wesley Hall, Room 236 Tel: 513/276-6463.

ATTENTION: CHEMISTRY, CALCULUS, AND PHYSICS STUDENTS

Studies show that 9 out of 10 students benefit from group study. Make your life easier and attend study tables.

This is a weekly meeting on Mondays at 6:30-8:30 p.m. in room 218 Fawcett. Bring a friend. Free soft drinks are provided.

AMERICAN SOCIETY FOR ENGINEERING EDUCATION (ASEE) ENG LOANS PROGRAM

The American Society for Engineering Education has again reinforced its leadership role in improving all aspects of engineering education in America. ASEE's membership is comprised of over 400 engineering colleges, many of whose deans, financial aid officers and – most importantly – students, have demonstrated a need for a low-cost way to finance graduate level engineering education.

In response to this need, ASEE helped create ENG LOANS, a program designed specifically for graduate engineering students. ENG LOANS offers students a comprehensive, convenient, high quality loan program at considerable cost savings. ENG LOANS is now fully operational, and based on current activity, ENG LOANS will deliver in this, its first year, more than \$15 million in low cost student loans to graduate engineering students.

For more information about ENG LOANS, contact an ENG LOANS Customer Assistance Agent at 1-800-562-2525.

GRADUATE FELLOWSHIP OPPORTUNITIES U.S. DEPARTMENT OF ENERGY/ORISE

Opportunities for highly-qualified and motivated students seeking graduate degrees are available through the U.S. Department of Energy, administered by the Oak Ridge Institute for Science and Education, Science/Engineering Education Division. The following areas are covered:

Applied Health Physics
Civilian Radioactive Waste Management
Industrial Hygiene
Magnetic Fusion Energy Technology
Magnetic Fusion Science

Application deadline varies with fellowship.

Contact:
Oak Ridge Institute for Science and
Education (ORISE)
Science/Engineering Education Division
P.O. Box 117,
Oak Ridge, Tennessee 37831-0117

RI/SME STUDENT ROBOTICS AUTOMATION CONTEST

Sponsored by Robotics International of the Society of Manufacturing Engineers – April 30–May 1, 1994.

Hosted by Purdue University, West Lafayette, Indiana

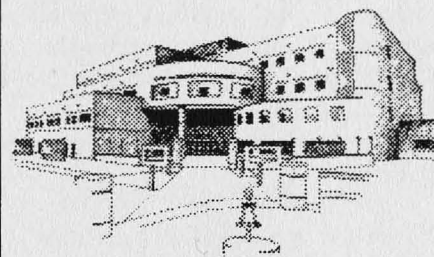
This contest is held each year to showcase students' awareness and creativity in the field of robotics and give them a chance to apply classroom knowledge to real-world applications.

You may look at an information packet in the college office, room 405 RC and obtain contest entry forms from:

Sandy Stroka, Education Department
Society of Manufacturing Engineers
One SME Drive, P.O. Box 930
Dearborn, Michigan 48121-0930

Application Deadline is March 15, 1994.

**REMEMBER - March 1 is the last day
to apply for June graduation**



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

Philip Chen (CS) published a paper, "An Integration of Neural Networks and Rule-Based Systems for Design and Planning of Mechanical Assemblies," in IEEE Trans. on Systems, Man and Cybernetics, Vol. SMC-23, No. 5, Sept/Oct., pp. 1359-1371, 1993.

Dr. Chen is also a co-inventor of a patent - "Inductive-Deductive Process Design for Machined Parts," submitted by WrightLab, W-PAFB, Nov., 1993, Air Force Invention No. 21134. >

Chien-In Chen (EE) received funding in the amount of \$250,000 from USAF: Wright Laboratory for his proposal entitled, "VLSI Testability Tool (VTST)." >

Kenneth Cornelius (ME) received funding in the amount of \$50,000 from General Motors Corporation for his proposal entitled, "Experimental Study of Ejector Integration." >

David Fautheree, Assistant Dean, received funding in the amount of \$1,868 from the Miami Valley Research Institute for, "Expert Systems Development Course." >

Sheila Hollenbaugh, Senior Computer Engineer, received funding in the amount of \$6,500 from the Miami Valley Research Institute for, "Technical Support for the MVRI/ISAC Prototyping Facility." >

Marian Kazimierczuk (EE) published the following paper with M. J. Mescher: "Class D Converter with Half-Wave Regulated Synchronous Rectifier," IEEE Applied Power Electronics Conference, Orlando, FL, Vol. 2, pp. 1005-1011, February 13-17, 1994. >

Giorgio McBeath, Assistant Dean, presented information on the WRIGHT STEPP Program at the Second Annual MSE Network Conference in February 1994, in Washington, D.C. >

Krishna Naishadham (EE) has been elected a full member of Commission B, International Union of Radio Science (USI) for research contributions in electromagnetics.

Dr. Naishadham received a WSU Alumni Special Grant for the project entitled, "Multimedia Lessons for Basic Electromagnetics Education in the Electrical Engineering Curriculum." >

Raghavan Srinivasan (ME) received funding in the amount of \$2,250 from Allied Signal for his proposal entitled, "Deformations and Recrystallization Studies." >

Isaac Weiss (ME) received funding in the amount of \$3,867 from Counselor Material Processing, Inc. for his proposal entitled,

"Study of Morphology and Size of Iron Oxide Particles."

Dr. Weiss also received funding in the amount of \$2,830 from Applied Sciences, Inc. for his proposal entitled, "Study of Microstructure Composite Materials." >

IEEE ELECTS DR. CHANDLER PHILLIPS A FELLOW

Chandler Phillips, Professor in the De-

partment of Biomedical and Human Factors Engineering was elected a Fellow of the Institute of Electrical and Electronics Engineers, Inc. with the following citation:



Chandler A. Phillips, "For contributions to biomedical engineering education."

Election to Fellow of the IEEE is a most prestigious honor, bestowed upon a very limited number of members who have made outstanding contributions to the art and science of electrical and electronics engineering and related disciplines. In 1994, only 249 new Fellows were elected from a worldwide IEEE membership of well over 300,000.

CAREER SERVICES

WANTED - WANTED - WANTED

Electrical and Materials Science Engineering students are needed to fill co-op jobs in the Miami Valley!

The Office of Career Services needs your help to identify interested and qualified EE and MSE majors who would like to earn some extra money and gain valuable experience.

In recent months we have been concentrating on job development for engineering and computer science majors. As a result, we are unable to fill many positions because Wright State students have been hired so quickly.

Please help us refer additional candidates from Wright State by contacting Emily Williams in the Office of Career Services at 873-2556 or visit us in 126 Student Services Wing. Thank you!

TECHNICAL JAPANESE OFFERED AT MIT

Massachusetts Institute of Technology is offering two intensive summer courses in technical Japanese. The first is for computer scientists, electrical engineers, and specialists in related fields. The second is for materials scientists and specialists in related fields, such as physics, chemical engineering, and mechanical engineering. Information is available in the college office, room 405 RC. **Application deadline is March 15, 1994.**

SCHOLARSHIPS and FELLOWSHIPS

NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH

Call for Presenters

The 8th National Conference on Undergraduate Research (NCUR) will bring together undergraduates involved in scholarly and artistic activities throughout the United States, representing a range of disciplines including business, creative arts, education, engineering, humanities, mathematics, performing arts, science, and social science as well as other academic disciplines. Representatives will attend from over 200 colleges and universities and from almost every state in the nation.

Since the first conference in 1987, the NCUR has become a major annual event that draws more than 1,200 undergraduates and 400 advisors and administrators to hear and discuss undergraduate creative and scholarly work by means of: oral presentations, poster presentations, artistic performances, exhibits. In addition, there is an opportunity to hear prominent researchers and leaders from academic, corporate, and government environments.

Undergraduate students are invited to give formal presentations or displays of original research, scholarly activities, or creative endeavors in all academic areas. Conference Dates: April 14-16, 1994.

At: Western Michigan University, Kalamazoo, MI

**Deadline to submit abstracts:
March 15, 1994.**

Information may be obtained from Department Chairs or the college office, room 405 RC.

SAFE - RICHARD H. FROST SCHOLARSHIP

The Richard H. Frost Aerospace Safety and Wright Brothers SAFE Scholarship is a \$1,000 scholarship given to a deserving student who is pursuing a career in aerospace safety, survival, or related discipline.

Student must be enrolled as a junior or senior for the next academic year at either the University of Dayton or Wright State University.

Student must be pursuing an aerospace safety, engineering, life sciences, medicine, or related degree program.

Student must have a GPA of 3.0 or higher.

Application for the scholarship must be received by July 1 of the year preceding the academic year in which it is to be used.

BUSINESS AND PROFESSIONAL WOMEN'S FOUNDATION

The Business and Professional Women's Foundation provides financial assistance through several programs. Two of these programs are:

- BPW Career Advancement Scholarship
- BPW Loan Fund for Women in Engineering Studies

The BPW Career Advancement Scholarship Program was established to assist women seeking the education necessary for entry or re-entry into the work force, or advancement within a career field. Scholarships ranging from \$500 - \$1,000 are awarded for full-time or part-time programs in the fields of computer science, teacher education, paralegal studies, engineering, science or professional (JD, DDS, MD) degrees. Age eligibility: 30 or older.

The loan fund for women in engineering was established in 1976 and is designed to assist women in their final two years of any accredited engineering program, including undergraduate, refresher, and conversion programs, as well as graduate studies. Study may be either full or part-time, but applicants must carry at least six semester hours or the equivalent during each semester for which loan is requested. Loans of up to \$5,000 are made for an academic year.

Application Deadline: April 15, 1994.

NEW LEADERS SCHOLARSHIP PROGRAM

Computer Associates International's New Leaders Scholarship program provides financial support to outstanding undergraduate students in computer science or related engineering fields.

Sophomores and juniors from 50 colleges and universities throughout the country are eligible to apply. The computer science chairperson of each participating school may nominate his/her three most promising students.

Each year, ten finalists receive \$5,000 scholarships along with PC's and CA software packages. Twenty semi-finalists will also receive the PC's and software. Recipients are selected based on transcripts, department chair's letters of recommendation and essays describing the applicant's career goals and ideas about the future of technology.

Each finalist is guaranteed an internship with Computer Associates, the software industry's largest independent company. For more information contact Computer Associates International, Inc., One Computer Associates Plaza, Islandia, NY 11788-7000, phone 516/342-5224, 1-800/MICRO90, FAX 342-6868.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN (AAUW)

This foundation is the oldest and largest non-institutional funder of graduate education for women. In April 1993, the Foundation awarded \$2.6 million in fellowships and grants for formal academic study, individual research and community action projects to address education and equity for women and girls.

To obtain an application, you may fill out a brochure coupon that is available in the college office, 405 RC, or contact the:

AAUW Foundation Service Staff
P.O. Box 4030
Iowa City, IA 52243-4030
Telephone 319/337-1716.

Application deadline varies with fellowship.

U.S. DEPARTMENT OF ENERGY

The U.S. Department of Energy (DOE) has postings for the following programs.

Faculty Research Opportunities

University/Laboratory Cooperative
Program with Student Research
Participation

Student Internships at the Pittsburgh
Energy Technology Center

Graduate Student Energy Research
Opportunities

Student Internships at Oakridge National
Laboratory and Hazardous Waste
Remedial Actions Program

You may review these postings in
the College Office, room 405 RC, or contact
the following for more information:

Science/Engineering Education Division
Oak Ridge Institute for Sciences
and Education
P.O. Box 117
Oak Ridge, TN 37831-0117

AMERICAN COUNCIL OF INDEPENDENT LABORATORIES, INC.

The American Council of Independent Laboratories Auxiliary offers a scholarship of at least \$1,000 every year to a student pursuing a career in the scientific, geosciences, or construction testing field.

Applicants must be in their junior year or above in an accredited college. The candidate must be majoring in any of the physical sciences: physics, chemistry, engineering, geology, biology or environmental science. **To apply for an award, the following items must be submitted to the scholarship chair by April 15, 1994.**

- The candidates' name, home address, and college address.
- Transcript of grades.
- A Brief resume of activities in college, including field of study and future plans.

- Two letters of recommendation from faculty members of the college the candidate presently attends.
- Information on any other scholarship or grant aid now receiving.
- Information on where the award should be mailed. All awards will be sent directly to the college indicated.

Contact:

Karen Day

Auxiliary of the American Council of
Independent Laboratories, Inc.
Route 3 - Box 6
New Ulm, MN 56073

McNAIR SCHOLARS

The Ronald E. McNair Post-Baccalaureate Achievement Program at the University of Maine offers a comprehensive graduate school preparation program, including an intensive summer research internship component.

Information and application packet are available in 405 RC.

Deadline to apply is March 14, 1994.

SCHOLARSHIP POSTINGS

Applications are available to engineering students for the following scholarships:

Construction Specifications Institute Scholarship: GPA of 2.8. Second year student. Amount: \$600. No deadline.

DEED Scholarship Program: Graduate or undergraduate students in energy related disciplines. Superior academic performance. Amount \$3,000. Deadline August 1, 1994.

Lake Erie Electric Scholarship Fund: Lorain County students majoring in electronics field. Graduating high school seniors or current college student. Amount: Up to \$1,000. For information contact:

William Arroyo, Program Officer
The Community Foundation of Greater
Lorain County
1865 North Ridge Road, East, Suite A
Lorain, OH 44055
216/277-0142 or 323-4445

Society for Women Engineers - Freshman Scholarship: women entering freshman majoring in engineering. Amount: \$1,000.

Reentry Scholarship Award: To encourage and aid women in reentering the job market as an engineer after being out of work force for a minimum of two years. Recipient may be any year, undergraduate or graduate. Amount: \$1,000.

Zonta International Amelia Fellowship Awards: Must have a bachelor's degree qualifying women for graduate work. Superior academic record, teacher recommendations. Amount: \$6,000.

Applications for these postings are available in 129 Student Services.

ISHM EDUCATIONAL FOUNDATION STUDENT RESEARCH GRANTS

The Foundation welcomes proposals authored by U.S. citizens or permanent residents pursuing advanced degrees (Master's, Ph.D.) in engineering, materials science and related technical disciplines impacting microelectronic technology.

Applicants must be affiliated with an accredited college or university which supports the student's efforts through provision of a faculty advisor and suitable facilities/materials.

Application information is available in 405 RC. **Deadline for applications is April 4, 1994.**

WOW SCHOLARSHIP

Scholarships are available for non-traditional, part-time, female students with a 3.0 GPA.

Sponsored by the Wright State University Organization for Women. Application forms are available in the Financial Aid Office.

Application deadline is March 31, 1994.

CALL FOR STUDENT TECHNICAL PAPERS

The Engineers Club of Dayton and the Engineers Club of Dayton Foundation announce the 1994 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 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 Engineer*.

Five (5) copies of each paper must be received for review by April 30, 1994.

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 co-authored 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:

Dennis M. Nolan, General Manager
Engineers Club of Dayton
110 East Monument Avenue
Dayton, Ohio 45402

Deadline for entry is April 30, 1994



**Building Watch Program
in Effect**

ATTENTION EE MAJORS

The student branch of The Institute of Electrical and Electronics Engineers, Inc. (IEEE) invites you to attend their April meeting.

**Wednesday April 6
3:00 p.m.**

**Room 163 Russ Engineering
Center**

The IEEE organization is the world's largest technical professional society. The students' branch located on the campus of WSU is an active organization that sponsors speakers and arranges tours of engineering facilities.

Take advantage of the opportunity to attend this meeting and get involved in activities that will allow you to meet professionals and broaden your knowledge of the opportunities available to electrical engineers. GET INVOLVED.

SIXTH ANNUAL RUBBER-BAND POWERED AIRCRAFT CONTEST

The sixth annual rubberband-powered aircraft contest was held February 22 in the main arena of the Nutter Center. Twenty entries competed in two divisions.

Prizes were awarded as follows:

NOVICE DIVISION

First Place: \$25, T-shirt, mechanical pencil

Dewey Davenport – Greenview High School

Duration of flight – 1 min. 32 sec.

Second Place: \$15, T-shirt, mechanical pencil

Chris Fry – MVCTC

Duration of flight – 51 sec.

Third Place: \$10, T-shirt, mechanical pencil

Joe Lindsey – MVCTC

Duration of flight – 49 sec.

OPEN CLASS

First Place: \$25, T-shirt, mechanical pencil

Michael Teplitsky – Trotwood-Madison

Duration of flight – 1 min. 19 sec.

IT'S A FACT that American industry, far from going out of business, is now producing more than ever.

In 1992, manufacturing output was 39 percent higher than in 1980 and 95 percent higher than in 1970. Things that were hardly made 20 years ago are now produced in massive amounts. In 1991, for example, U.S. factories shipped 10.2 million personal computers. But we need fewer people (18.2 million in 1992) than in 1970 (19.3 million) to make all these things. This greater efficiency is not an economic drag; it releases more Americans to supply other things we want – from software to health care.

R.J. Samuelson, *Newsweek*, January 31, 1994

**RAMANA GRANDHI (ME)
RECEIVES
1994 OUTSTANDING ENGINEERS AND SCIENTISTS AWARD**

Ramana Grandhi, Ph.D., Professor in the Department of Mechanical and Materials Engineering, College of Engineering and Computer Science received the 1994 Outstanding Engineers and Scientists Award from the Affiliate Societies Council of the Engineering and Science



Foundation of Dayton. The award was presented at the organization's 35th annual awards banquet which was held February 17 at the Kennedy Union on the campus of The University of Dayton.

Dr. Grandhi, who is a Brage Golding Distinguished Professor, joined Wright State University's Department of Mechanical and Materials Engineering in 1984.

He has developed internationally recognized teaching and research programs in aircraft structural optimization computational mechanics and aircraft performance. He also has made significant contributions

to the development of undergraduate laboratories and to computer implementation in the curriculum. He has published more than 100 technical papers in journals and conference proceedings.

Dr. James E. Brandeberry, Dean of the College of Engineering and Computer Science has described Dr. Grandhi as "the quintessential educator." Dr. Brandeberry said, "Not only is he an outstanding faculty member, but also a recognized leader with a unique ability to attract and motivate students at both the undergraduate and graduate levels."

Dr. Grandhi's innovative research is exemplified by his study of trajectory optimization for the National Aerospace Plane sponsored by the Center for Artificial Intelligence Applications. This project was designed to optimize the earth-to-orbit aircraft trajectory for maximum payload.

Additional research sponsors include the Federal Aviation Administration, Wright-Patterson Air Force Base, NASA Lewis Research Center, and Edison Materials Technology Center.

Other awards that Dr. Grandhi has received include:

DOW Outstanding Faculty Award given by the American Society of Engineering Education (ASEE) for excellence in research, 1989.

Ralph R. Teetor Award given by the Society of Automotive Engineers (SAE) for excellence in research, 1987.

Excellence in Research Award by the College of Engineering and Computer Science at WSU, 1989-1990.

UP & COMERS Award in Education by Price Waterhouse and the Muse Machine, 1990.

Outstanding Young Man of America selection based on teaching and research credentials, 1987.

Best Paper Awards at the 12th and 13th AIAA Annual Symposiums on Aerospace Science and Technology, held in Dayton, Ohio, 1986-1987.

**STUDENT RESEARCH
POSITIONS AVAILABLE**

The Student Support Program has positions available now and anticipated openings beginning spring quarter.

If you are looking for challenging research, a flexible work schedule in a professional setting - we would like to hear from you.

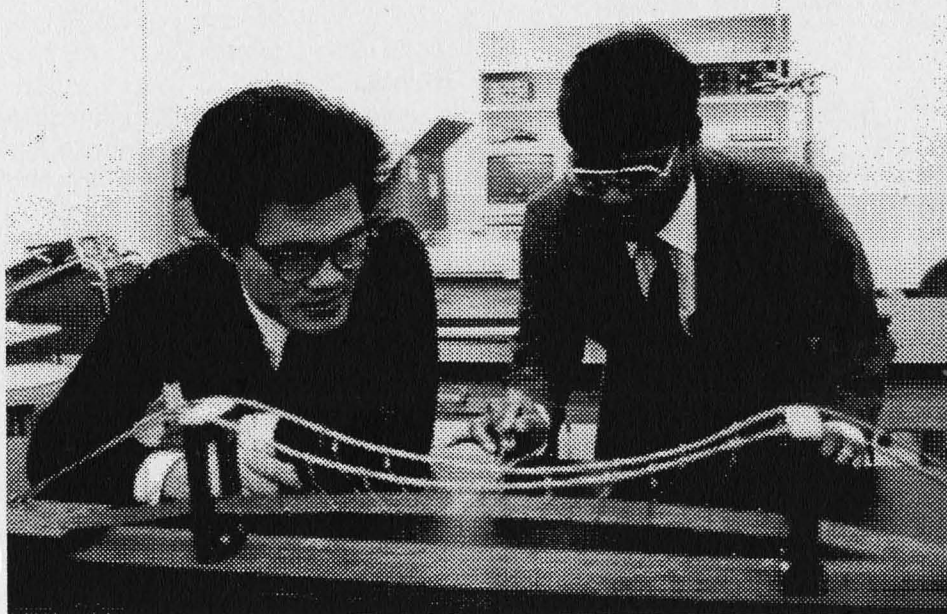
Academic Majors

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

Benefits

- Build a better resume
- Earn extra money (\$7.90/hr - \$12.12/hr)
- Work a Flexible schedule
- Be prepared after graduation
- Must be an undergraduate or graduate student in good standing, and a US citizen to apply.

**CALL SOCHE
STUDENT SUPPORT PROGRAM
513/259-1375**



Guoqun Zhao, Researcher, and Dr. Ramana Grandhi, study the vibration characteristics of structures.

National Engineers Week

Yeahhhh

TEAMS
TESTS OF ENGINEERING APTITUDE, MATHEMATICS AND SCIENCE

The TEAMS Competition, sponsored by the Junior Engineering Technical Society (JETS) and hosted at the Nutter Center by the College of Engineering and Computer Science was held on February 17.

Forty-four area high schools attended and the following is the results of this regional competition.

Varsity Teams

Extra Large School Category

First Place	Beavercreek High School
Second Place	Centerville High School
Third Place	Middletown High School

Large School Category

First Place	Carroll High School
Second Place	Springfield North High School
Third Place	Chaminade-Julienne High School

Medium School Category

First Place	Yellow Springs High School
Second Place	Catholic Central High School
Third Place	Minster High School

Small School Category

First Place	Spring Valley Academy
Second Place	Cedarville High School
Third Place	Fort Loramie High School

OPEN HOUSE

On Monday, February 21, the College of Engineering and Computer Science welcomed visitors to an Open House held in the Fritz and Dolores Russ Engineering Center.

Visitors were given the opportunity to learn about our engineering and computer science programs; meet with alumni, faculty and students; and tour the facilities and laboratories.

A program featuring a discussion on careers in engineering was presented by Dean James E. Brandeberry and student representatives from the Wright Engineering Council were on hand to provide a student view of campus life and engineering at Wright State University.

SCAVENGER HUNT

February 18 marked the conclusion of the scavenger hunt which was sponsored by the Wright Engineering Council.

First Place – \$50 was awarded to “Kathy’s Team.”

Second Place – \$30 was awarded to the team of Dale, Jen, Pat, Dax and Paul.

Third Place – \$20 went to “Aces” with Cherish Krutil serving as captain.

Honorable Mention went to the team of “Scott, David and Andrea,” with Scott Richardson serving as captain.

BRIDGE BUILDING COMPETITION

In conjunction with the TEAMS Competition, the College of Engineering and Computer Science also sponsored a Balsa Wood Bridge Building Contest. Students were given an opportunity to test the strength of their bridges and the following students from local high schools were winners in this event.

First Place (\$125) went to Timothy Bench from Miami Valley Career Technology Center.

Second Place (\$75) went to Chris Mullins from Franklin High School.

Third Place (\$50) went to Ed Bellman from Tecumseh High School.

Fourth Place (\$30) went to Steve Bentley of Miami Valley Career Technology Center.

Fifth Place (\$20) went to Scott Ruppert from Colonel White High School.

ENGINEERING TRASHMAN CONTEST

The Engineering Trashman Contest was won by Dan Miracle, Adjunct in the Department of Mechanical Engineering and Teri Shepherd from the college office.

Both correctly guessed the weight of the material to build Trashman as twelve pounds.

Dan received a \$25 gift certificate from CD Connection and Teri received a \$20 gift certificate from the College Bookstore.

Kathy Kennedy received a college T-shirt and shorts for her guess of 12.5 pounds.

BREAKFAST WITH THE DEAN

On February 16, officers of CECS clubs and organizations were invited to attend a student leaders’ breakfast with Dean James E. Brandeberry. The student leaders had an opportunity to meet with the dean in an informal setting and discuss issues concerning students in engineering. It is hoped that this breakfast will start a new Engineers Week tradition.

THANK YOU

The College of Engineering and Computer Science wishes to thank the many friends of engineering who volunteered to help during National Engineers Week.

With their help, the college was able to focus attention on the engineering profession, and to highlight the accomplishments of engineers who advance technology by "turning ideas into reality."

TEAMS COORDINATORS

Dick Rathbun
Teri Shepherd

TEAMS HOSTS

Nancy Binkley	Lillian Johnson
Nalda Blair	Janice Luce
Sharon Coates	George McBeath
Peter Cindric	Suzy McGovern
Mike Dakhli	Debby Perry
Dave Fautheree	Nancy Raisch
Becky Harris	Brian Rathbun
Sara Hohne	Sherry Rathbun
Sheila Hollenbaugh	Lee Robison
Marcia Hutchison	Jane Schelb
Ann Isper	Barry Woods

BHE DEPARTMENT

Kris Benzman
Amy Bergman
Anita Phagura
Kelly Treat

SCORERS FOR TEAMS

Dolores Davis
Dr. Billy Friar
Sue Grieshop
Nancy Lockwood
Dr. Larry Smith

STUDENT WORKERS FROM COLLEGE OFFICE

Kathy Kennedy
Kris Martin
Renata Ramundo
Jen Reynolds

WRIGHT ENGINEERING COUNCIL (WEC) VOLUNTEERS

Greg Bartell	Patty Lake
Dale Cramer	Kevin Murphy
Mike Dillon	Paul Niedermier
Jason Evans	Andrew Nuckols
Jen Foley	NN Schneider
Jeff Gardner	Dawn Scopel
Aaron Grabrianowski	Sue Seitz
T.J. Hoke	Jason Shearn
Steve Keller	Brad Smith
Rick Kolb	Todd Hemmert

BRIDGE BUSTERS

Mary Brickner
Dr. Harry Lipsitt
Dr. Raghavan Srinivasan
Doug Supp
Greg Wilt
Doug Yost

AIRPLANE CONTEST WORKERS

Jeff Reeder
Lynn Sloppy
Doug Supp
Dr. Scott Thomas
Greg Wilt

With Special Guest Appearance by
Alumnus John Williamson

EGGSTRA-SPECIAL THANKS
to Eric Freeman from
EGGHEAD SOFTWARE
for supporting the
1994 Egg Drop Contest

SPECIAL THANKS to Crete Vandeval, Glenn Hoops, and the staff at the Nutter Center who did a fantastic job during the 1994 TEAMS Competition

REMEMBER - No winter lasts forever; no spring skips its turn.

Hal Borland

EGG DROP CONTEST

The atrium of the Russ Engineering Center became the site of the Third Annual Egg Drop Contest that was held on February 24. Six competitors entered this event and prizes were awarded as follows:

FIRST PLACE - Jerry Thomas (EE) - \$40 gift certificate from EGGHEAD SOFTWARE and a National Engineers Week T-shirt.

SECOND PLACE - Nancy Binkley of the Electronics Shop - \$20 cash.

THIRD PLACE - Jen Reynolds (BME) and Paul Niedermier (CEG) - \$10 cash.

Albert Eggstein Award for Creativity was won by Shouna Weyrauch (Biology).

Humpty-Dumpty Award for the greatest single failure was won by Jen Reynolds and Paul Niedermier.

This event was sponsored by the Wright Engineering Council and EGGHEAD SOFTWARE.

Judges for the event were Drs. Richard Bethke, Anthony Cacioppo, Larry Crum, and Raymond Siferd of the College of Engineering and Computer Science, and Eric Freeman who represented EGGHEAD SOFTWARE.

GATHERING AT THE RAIL (GATR)

At exactly 11:52 a.m. on the morning of February 23, faculty, staff and students gathered on each floor of the atrium for a photo session. Those awarded prizes for standing on the "hot spots" located on each floor were:

Dharmika Dewasurendra (BME) - 2nd floor - won a National Engineers Week T-Shirt.

Todd Hemmert (EE) - 3rd floor - won a National Engineers Week Mug.

Steve Hayden (Electronic Shop) - 4th floor - won a National Engineers Week T-Shirt.

**Area Business and Community Leaders
Join
TEAMS 1994**

The College of Engineering and Computer Science wishes to thank the local business and community leaders who have offered encouragement and support to the 1994 TEAMS Competition. Through their cooperation and generosity, we were able to host this event and provide outstanding awards and prizes.

TEAMS (Tests of Engineering Aptitude, Mathematics and Science) which is sponsored by the Junior Engineering Technical Society (JETS) is a challenging academic competition that helps prepare high school students for tomorrow's world – TODAY. The support of our local sponsors is essential to the success of this program at Wright State University.

**We salute these organizations that have reached out to join us in the
*business of education in Ohio.***

Arby's Roast Beef Restaurant

Books & Company

Dayton Society of Professional Engineers

Domino's Pizza

Engineering and Science Foundation of Dayton

Holiday Inn Conference Center/I-675

Lee's Famous Recipe

MTS Systems Corporation

Marketeers


Max and Erma's Restaurants, Inc.

Nutter Center Box Office

Frank M. Tait Foundation

WSU Bookstore

March 1994

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Mexican Fiesta Last Day to Apply for June Graduation 1	2	3	4	5
6	7	8	9	10	Jr.High Egg Drop 3:30 pm Russ Egr. Center 1 1	NEAS 9-12noon Last Day of Winter Quarter Classes 1 2
13	Final Exams 14	Telecon 4-5 pm When Egr.Skills Not Enough! 405RC 15	Final Exams 16	Final Exams  17	Final Exams 18	Final Exams 19
20	21	22	23	24	25	26
27	Spring Quarter Classes Begin 28	29	30	31		

April 1994

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					April Fool's Day 1	2
3	4	5	6	7	8	9
10	Telecon 7-8 am Lift Off 405 RC 11	12	13	14	Last Day to Drop a Class W/O a Grade of "W" 15	Senior Summer Registration EIT Exam 16
17	Telecon 7-8 am Lift Off 405 RC 18	Telecon 4-5pm CarnegieMellon U EE Curriculum 405 RC 19	20	21	22	Junior Summer Registration 23
24	25	26	27	28	29	Sophomore Summer Registration 30

ATTENTION HIGH SCHOOL STUDENTS

SHADOWING PROGRAM

High school students are invited to spend a day on our campus with a freshman, sophomore or junior engineering or computer science student. You can attend classes, labs, and club meetings, and meet faculty members and students. For more information call 513/873-5001.

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

Make Reservations to Attend
the
ANNUAL COLLEGE
AWARDS BANQUET
Friday, May 20, 1994
6:00 p.m.
Berry Room
Ervin J. Nutter Center



Special Guest Speaker
President Harley E. Flack