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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

March 1993

Wright State University Dayton, Ohio 45435

Vol. 9 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 9, 1993. Submit items to be included in this issue to the College of Engineering and Computer Science office, 405 Russ Engineering Center, by March 15, 1993.

NEW COURSE OFFERING SPRING QUARTER 1993

**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.

STUDENT SUGGESTION PROGRAM

If you are a student in the College of Engineering and Computer Science with an idea or suggestion for improving the building, engineering programs, laboratories, or teaching facilities, submit it to the Student Suggestion Program.

Dean James E. Brandeberry has initiated this program and would like to hear from students about ways to improve the facilities and programs for the college.

A suggestion box has been installed in front of the dean's office, room 405 Russ Engineering Center. Forms are available in the student club room, department offices, and student lounge.

This program will be in effect until April 15, 1993.

Each suggestion will be reviewed at the time it is submitted, and in May, a cash award of \$500 will be presented to the

student, enrolled in the College of Engineering and Computer Science, who is judged to have made the best suggestion for an improvement to our college.

ENGINEERING AND SCIENCE FOUNDATION SCHOLARSHIP

Robert D. Dixon, Chair of the Department of Computer Science and Engineering announced the selection of Scott T. Campbell to receive the Engineering and Science Foundation Scholarship for 1992-93.

Scott graduated from Middletown High School. He is a full-time Ph.D. student with a 4.0 grade point average. The total scholarship is in the amount of \$10,000.

LAST CALL FOR STUDENT PAPERS for the Ermal C. "Ernie" Frazee Student Paper Program. March 31, 1993 deadline. Details on page 3.

It's a Date!

- Mar. 15- 20 Final Exams
- Mar. 27 - Campus electrical power shutdown
- Mar. 28 - Campus electrical power shutdown
- Mar. 29 - Spring quarter classes begin
- Apr. 17 - Senior summer registration begins
- EIT Examination
- Apr. 24 - Junior summer registration begins
- May 1 - Sophomore summer registration begins
- May 2 - Freshmen summer registration begins
- May 8 - Senior fall registration begins
- May 15 - Junior fall registration begins
- May 22 - Sophomore fall registration begins
- May 23 - Freshman fall registration begins

**DAYTON ARCHITECTURE
FIRM HONORED FOR RUSS
ENGINEERING CENTER**

The Dayton firm Levin Porter Associates has received an "Architectural Excellence Award" for its design of Wright State University's Fritz and Dolores Russ Engineering Center.

The award was the top honor given at the 20th annual Masonry Institute of Dayton awards ceremony in December of 1992. The institute is a nonprofit service organization representing manufacturers and distributors of masonry products in 11 southwest Ohio counties.

The Russ Engineering Center is a 173,110 square-foot structure that uses a four-story atrium to organize the space and bring in natural light. Judges said that the materials used, inside and out, successfully bespoke the building's high-technology function and integrated it with the rest of the Wright State University campus.

The firm used large amounts of brick, bronzed glass, cast-stone accents and glass block to create the large structure's light, open atmosphere.

Korda-Nemeth Engineering, KMCO, Inc., and Snyder Brick & Block Co. were cited for engineering, craftsmanship and supply of this project.

POLICIES AND PROCEDURES

If you have questions regarding the policies or procedures of the College of Engineering and Computer Science, contact your advisor. He/she will explain these to you.

POLICY NO. 1010

COURSE PREREQUISITES – Students may be denied admission to, or withdrawn from, any course for which the prerequisites have not been met.

POLICY NOS. 1010 and 1011

ACADEMIC DISHONESTY – The college will always impose the most severe penalty possible for academic dishonesty and permanently dismiss students found guilty of two acts of dishonesty. Students are asked to sign an Academic Dishonesty Policy Form.

THESIS/DISSERTATION

The following is a schedule for all students who must complete and successfully defend a thesis or dissertation as part of their graduate degree program requirements.

Graduation Date	Thesis/Dissertation Final Copies Due
3/93	4/19/93
6/93	7/12/93
8/93	9/17/93
12/93	1/3/94

For additional information, contact Gerald C. Malicki, Assistant Dean and Director of Graduate Admissions and Records, 106 Oelman.

**REMINDER FROM
UNIVERSITY DIVISION**

Students should be aware that grades of D and F are unacceptable and should be repeated before continuing on in sequence. This is especially important in the areas of science and mathematics.

**UNDERGRADUATE
ADVISING CHANGES**

Effective immediately, all University Division students, ATS students, and other students who enter one of the departments in the college will need to see their advisor before registering for classes for the first time.

The reason for this change is to be certain students meet with an advisor, receive a program guide, plan a logical academic schedule, and understand the policies and procedures of the college.

DID YOU KNOW that "automation" is a well-used word in engineering. Delmar S. Harder, a Ford manufacturing executive, originated the word in 1946 to describe the mechanical handling of engine blocks between machines. *Society of Manufacturing Engineers (SME).*

**WRIGHT ENGINEERING
COUNCIL SPONSORS
PROGRAMS FOR
HIGH SCHOOL STUDENTS**

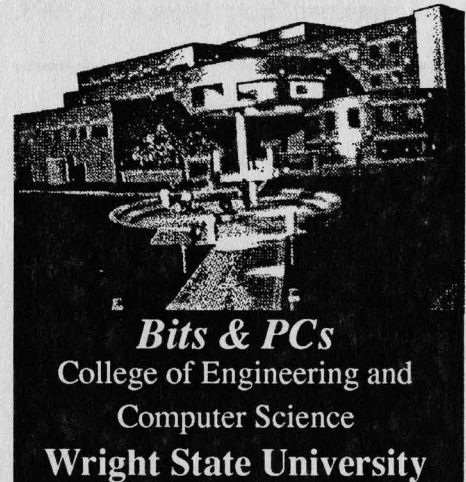
The Wright Engineering Council (WEC) is currently involved in telemarketing. Members of WEC call high school students who are interested in attending Wright State University starting in the fall of 1993.

The students are encouraged to attend WSU and the callers offer information that would be useful to prospective students. Weekend tours of the Fritz and Dolores Russ Engineering Center are also planned so that interested students can visit our engineering facilities.

Another program involving high school students is the Shadowing Program. This program allows high school students to attend classes and campus activities for one day, in the company of a student in an engineering or computer science program.

CONGRATULATIONS

Leslie Tack has been named the WEC member of the month!!!



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.

Scholarships and Fellowships

WISE WASHINGTON INTERNSHIPS FOR STUDENTS OF ENGINEERING

Fifteen third-year engineering students will be selected in a nationwide competition to spend 10 weeks in the summer of 1993 in Washington, DC learning how engineers contribute to public policy decisions on complex technological matters.

Through frequent meetings and discussions with government officials and other policy-makers, students examine a variety of public policy issues such as:

- Do government officials understand technology?
- Whom do they rely on for help in understanding the technological aspects of their decisions?
- Are there conflicts between professional judgments and political realities?

In addition, each student will complete a paper that analyzes specific engineering-public policy issues of concern to the sponsoring society.

Examples of recent papers include:

Trade Policy and the environment: U.S. - Mexico Free Trade

The President's Education Strategy: Analysis of the Effects of America 2000 on Mathematics and Science Education in America

Improving the Medical Device Industry: Recent Legislation and Regulations

The students will be under the guidance of a nationally prominent engineering professor and receive three credit hours.

A stipend of \$2,700 is provided along with a travel allowance to cover living expenses during the ten-week program.

Room and board must be paid out of the stipend and all participants are housed in a dormitory on the campus of George Washington University.

Applications for WISE are sought from outstanding third-year engineering students who display evidence of leadership skills and interest in public policy. Contact:

WISE
1707 L St. NW, Suite 333
Washington, DC 20036
202/296-2608 - FAX 202/833-3014

FIRST AUVS INTERNATIONAL UNMANNED GROUND ROBOTICS COMPETITION

In June of 1993, the Association for Unmanned Vehicle Systems (AUVS) will sponsor its first Ground Robotic Competition designed specifically for Unmanned Ground Vehicles (UGV).

The goal of the contest will be to develop a vehicle that can navigate around an outdoor obstacle course and natural terrain autonomously.

The competition is intended for university teams, which may consist of faculty members, undergraduate and/or graduate students.

The objective is to generate university interest and awareness, and promote enthusiasm and creativity in the challenging and exciting field of intelligent robotic systems.

The AUVS will award a \$10,000 prize to the winning team.

In addition, the winning team will be invited to attend the National AUVS convention in Washington, D.C. following the contest.

For more information, contact the college office, 405 RC, or write:

Dr. Ka C. Cheok/Candy McLellan
School of Engineering and Computer
Science
Oakland University
248 Dodge Hall
Rochester, MI 48309-4401
Fax (313) 370-4261

NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE FELLOWSHIPS

For information on graduate fellowships available starting in academic year 1993-1994, contact the following:

ATTN: Dr. George Outterson
NDSEG Fellowship Program
200 Park Drive, Suite 211
P.O. Box 13444
Research Triangle Park, NC 47709-3444

LLOYD A. CHACEY, P.E. SCHOLARSHIP

The Engineers Foundation of Ohio (EFO) is proud to announce that the Lloyd A. Chacey, P.E. Scholarship will again be awarded for 1993.

This scholarship is a one-year grant in the amount of 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.

Applicants 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/her death. They must be enrolled full time at a college or university in Ohio in an ABET accredited engineering curriculum, and must achieve junior status at the end of this current academic year.

Application information is available in the college office.

Application deadline is June 1, 1993.

PART-TIME EMPLOYMENT

Universal Technology has a part-time (15-20 hours per week) secretarial position open in their Engineering Department. Duties include typing, copying, and data entry. Flexible hours. Contact Carol Huber at 426-8530 for more information.

**UNITED STATES
DEPARTMENT OF ENERGY**

**Integrated Manufacturing Pre-doctoral
Fellowships.**

This program is open only to individuals who, at the time of application, are United States citizens or nationals, or permanent resident aliens of the United States.

Eligible applicants must have received a master's degree before the beginning of the fall 1993 term.

The prerequisite of a master's degree will be waived for applicants with a bachelor's degree admitted to a doctoral program prior to the beginning of the fall 1993 term.

Additional Information may be obtained from the college office, 405 Russ Engineering Center or by writing to:

The Fellowship Office
National Research Council
2101 Constitution Avenue
Washington, D.C., 20418

**AIR FORCE ROTC OFFERS
INCENTIVE SCHOLARSHIPS**

Regardless of academic major, every junior and senior Air Force Reserve Officer Training Corps cadet presently enrolled in the Professional Officer Course can now receive a \$2,000 annual incentive scholarship. Sophomores seeking entrance into the program will receive the same benefit starting next fall quarter.

The new program, called the Professional Officer Course Incentive Scholarship Program, will be funded initially through the spring term of academic year 1994-95. Cadets at schools on a semester system will receive \$1,000 per semester, while cadets at quarter-system schools receive \$666 per quarter to cover the cost of tuition, books and fees. Payments for summer sessions are not authorized.

According to Brig. Gen. Robin G. Tornow, commandant of Headquarters ROTC, the scholarship program was devised to encourage cadets to continue with ROTC. "There is a perception out there that the Air Force isn't hiring these days, and that

couldn't be farther from the truth. We are, and this scholarship is proof positive. Our search for the right kind of people to carry the Air Force into the next century is continuing and our goal is to keep them on board with quality retention programs such as the incentive scholarship."

The program is estimated to cost \$1.9 million during the first year of operation and will be offered to more than 1,900 cadets from 138 ROTC detachments nationwide. All cadets with a scholarship of this type will be commissioned upon graduation and will generally incur a four-year commitment to the Air Force, depending on their major and career field. First year salary is \$25,000, building to \$40,000 during the fourth year.

Eligible cadets must be full-time students and enrolled into the POC -- the last two years of the Air Force ROTC program. Cadets must also meet military retention standards and cannot be 25 or older as of June 30 in the year of commissioning. Applicants for the scholarship need only a 2.0 cumulative grade point average to qualify for the program.

The program's continuance beyond 1995 will depend on future funding and the effectiveness of the program as an incentive and retention tool. Additional information may be obtained by contacting Air Force ROTC at 873-2730.

**ARGONNE NATIONAL
LABORATORY**

Argonne National Laboratory, one of the U.S. Department of Energy's major research centers, is pleased to announce opportunities for college/university faculty and students to participate in the laboratory's ongoing research programs.

Faculty and student participation is a major activity at Argonne involving approximately one hundred faculty members and five hundred students annually. Research opportunities are available in the areas of physical and life sciences, mathematics, computer science, and engineering, as well as in a variety of applied areas relating to conservation, environmental impact, coal, fission and fusion technologies.

Appointments are available for qualified graduate students at U.S. universities who wish to carry out their thesis research at Argonne under the co-sponsorship of an Argonne staff member and a faculty member.

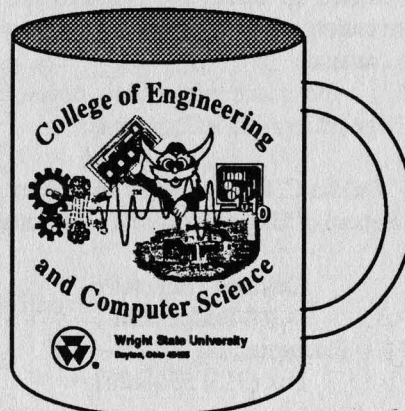
Information is available in the college office, 405 Russ Engineering Center, or write to:

Division of Educational Programs
Graduate Student Program Office
9700 South Cass Avenue
Argonne, Illinois 60439-4845
(708) 252-3371

A copy of the 1993/94 NASA Graduate Student Researchers Program Guide featuring areas of research activities at NASA facilities is available in the college office, room 405 RC.

**College Mugs for Sale
\$4.00**

**Available in Room 163 Russ
Engineering Center**



It's a Fact - Of the 2.7 million engineers in the United States, 20 percent eventually become managers. Approximately 22 percent of those who hold degrees in either science or engineering work outside their fields in a variety of other occupations or careers. (Source: *American Society of Mechanical Engineers*)

Faculty Facts

Chien-In H. Chen (EE) received funding in the amount of \$20,000 from Research & Development Laboratories for his proposal entitled, "VHDL in VLSI BIST Design Synthesis." >

Jer-Sen Chen (CSE) received funding in the amount of \$20,000 from Research & Development Laboratories for his proposal entitled, "Detection and Recognition Tasks/Thermal Imaging." >

Soon M. Chung (CSE) published the following papers:

"Indexed Extendible Hashing," *Information Processing Letters*, Vol. 44, No. 1, 1992.

"Multiple Tree Quorum Algorithm for Replica Control in Distributed Database Systems," *Proc. of IEEE Symposium on Parallel and Distributed Processing*, IEEE Computer Society Press, 1992 (with C. Cao).

"Automatic Logical Navigation for Relational Databases," *Proc. of ACM Symposium on Applied Computing*, ACM Press, 1993 (with P.E. Reimers).

"Distributive Join Algorithm for Shared-Memory Multiprocessors," *Proc. of ACM Symposium on Applied Computing*, ACM Press, 1993 (with J. Yang).

"The Point-Range Tree: A Data Structure for Indexing Intervals," *Proc. of ACM Computer Science Conference*, ACM Press, 1993 (with M. Chaabouni).

"Enhanced Tree Quorum Algorithm for Replicated Distributed Databases," *Proc. of Int'l Symposium on Database Systems for Advanced Applications*, World Scientific Publishing, 1993.

"Distributive Join Algorithm for Cube-Connected Multiprocessors," *Proc. of Int'l Symposium on Database Systems for Advanced Applications*, World Scientific Publishing, 1993 (with J. Yang).

"Video Decimeter Design Using a Systolic Array," *Proc. of IEEE Int'l Symposium on Circuit and Systems*, IEEE Press, 1993 (with S. Campbell).

"Intelligence User Interface for Very Large Relational Databases," *Proc. of Int'l Conference on Human Computer Interaction*, Elsevier Science Publishers, 1993 (with P.E. Reimers). >

Amir Faghri (ME) received funding from USAF: Wright Laboratory for the following research projects:

"Modeling of High Temperature Heat Pipe" - \$110,000.

"Micro Heat Pipe Technology in Electronic-Cooling" - \$100,613. >

Lang Hong (EE) had the following articles accepted for publication:

"Multiresolutional Distributed Filtering," *IEEE Trans. on Automatic Control*, Vol. 39, 1994.

"Real-time Optimal Filtering for Stochastic Systems with Multiresolutional Measurements," *System and Control Letters*, Vol. 20, 1994 (with T. Scaggs).

"Multiresolutional Multiple-Model Target Tracking," *IEEE Trans. on Aerospace and Electronic Systems*, Vol. 30, 1994 (with J.R. Werthmann, G.S. Bierman and R.A. Wood).

Dr. Hong also had the following conference papers accepted:

"Distributed Multiresolutional Filtering/Smoothing," *12th World Congress of the International Federation of Automatic Control*, Sydney, Australia, July, 1993.

"Real-Time Multiresolutional Sensor/Data Fusion," *1993 IEEE International Conference on Robotics and Automation*, Atlanta, GA, May, 1993 (with T. Scaggs). >

Shane Y. Hong (ME) published the following papers:

"Topographic Profiling and Dimensional Measurement of VLSI Structure by Scanning Tunneling Microscopy," *Journal of Electronics Manufacturing*, pp. 169-183, 1992.

"Cryogenic Properties of Some Cutting Tool Materials," published in *Journal of Material Engineering and Performance*, Vol. 1 (5), pp. 669-678, Oct., 1992 (with Zhibo Zhao).

"Cooling Strategy for Cryogenic Machining from Material Viewpoint," published in *Journal of Material Engineering and Performance*, Vol. 1(5), Oct. 1992 (with Zhibo Zhao). >

Jack S. Jean (CSE) received funding in the amount of \$20,000 from Research & Development Laboratories for his proposal entitled, "Laser Imaging and Ranging Processing." >

Marian K. Kazimierczuk (EE) published the following papers:

"Class E Full-Wave Low dv/dt Rectifier," *IEEE Trans. Circuits System*, Jan. 1993 (with A. Reatti and R. Redl).

"Phase-Controlled CLL Resonant Converter," *IEEE Applied Power Electronic Conference*, San Diego, CA, March 7-11, 1993 (with D. Czarkowski). >

L. R. Pujara (EE) published the following papers:

"A New Technique for Robustly Stabilizing Uncertain Control Systems over Maximal Parameter Domain," *IEEE Conference on Decision and Control*, Dec., 1992, pp. 355-356. This paper was presented at the conference by Dr. Pujara.

"Some Stability Theorems for Polygons of Polynomials," *IEEE Transactions on Automatic Control*, Nov., 1992, pp. 1845-1849. >

Richard K. Rathbun, Assistant Dean, received funding in the amount of \$6,000 from the following organizations in support of the 1993 TEAMS (Tests of Engineering Aptitude, Mathematics and Science) Competition:

Frank M. Tait Foundation \$1,500; WSU Foundation \$2,000; Dayton Society of Professional Engineers \$500; and the Engineering and Science Foundation of Dayton \$2,000 >

David B. Reynolds (BHE) received funding in the amount of \$20,000 from Research & Development Laboratories for his proposal entitled, "Simulation of the Motion of Single and Linked Ellipsoid." >

Arnab K. Shaw (EE) received funding in the amount of \$20,000 from Research & Development Laboratories for his proposal entitled, "Digital Signal Processing Algorithms." >

National Engineers Week

The activities of National Engineers Week on the campus of Wright State University covered a two week period this year

OPEN HOUSE

On February 15, the College of Engineering and Computer Science welcomed visitors to an open house held in the Fritz and Dolores Russ Engineering Center.

Approximately 300 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 Department Chairs Dr. Richard Bethke, Mechanical and Materials Engineering; Dr. Anthony Cacioppo, Biomedical and Human Factors Engineering; Dr. Robert Dixon, Computer Science and Engineering; and Dr. Raymond Siferd, Electrical Engineering.

WINTER BONFIRE FOR ENGINEERS

The Wright Engineering Council sponsored a winter bonfire at the Campus Ministry on February 16. About 20 students attended this event, enjoying hot dogs, chips, brownies and an impromptu snowball fight which was initiated by Paul Niedermier and Bob Hale.

MEXICAN FIESTA/BASKETBALL GAME

The annual Mexican Fiesta/Basketball game sponsored by the Alumni Association and the College of Engineering and Computer Science was held at the Nutter Center on February 18. This event was enjoyed by approximately 90 enthusiastic sports fans.

FIFTH ANNUAL INDOOR RUBBERBAND - POWERED AIRCRAFT CONTEST

The 5th annual aircraft contest was held this year in the Nutter Center on Febru-

ary 19. Twenty-five entries competed and prizes were awarded as follows:

Open Class Division

First Place - Ryan Stokes from Trotwood-Madison High School with a flight time of 5:15.

Second Place - Jim Stubbs from WSU with a flight time of 2:58.

Third Place - Tim Leger from WSU with a flight time of 2:27.

Novice Class Competition

First Place - Caren Fenton from Trotwood-Madison High School with a flight time of 1:04.

Second Place - Sachi Hergesheimer and Amy Dolinar from Yellow Springs High School with a flight time of 0:59.

Third Place - Katherine Creech from Wilmington High School with a flight time of 0:58.

This event is sponsored by the College of Engineering and Computer Science and the American Institute for Aeronautics and Astronautics (AIAA) Student Club.

T-SHIRT DESIGN CONTEST

The T-shirt design competition was won by NN Schneider. The new shirts carrying her design will be on sale during spring quarter. Watch for information.

SCAVENGER HUNT

February 19 marked the conclusion of the Scavenger Hunt which was sponsored by the Wright Engineering Council.

First Place (\$60) was awarded to the IEEE Team under the leadership of Tracey Wilson. The team scored 2,175 points.

Second Place (\$40) was awarded to the WEC II Team headed by captain Melissa Browning. This team won with 1,915 points.

Third Place (\$20) went to Lynn Jackson's team with 1,400 points.

Fourth Place team was headed by John Szkudlarek who received 555 points.

Fifth Place went to Rod Fair's WEC I team with 455 points.

VOLLEYBALL TOURNAMENT

The Society of Women Engineers sponsored a double elimination volleyball tournament on February 19. Five teams participated.

First Place was won by the Russ Rompers, under the leadership of Bob Hale.

Second Place went to the Martinsite Team led by Ray Orf.

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 24.

Fifty-four area high schools attended.

Varsity Teams

Extra Large School Category

First Place	Centerville HS
Second Place	Wayne HS
Third Place	Beavercreek HS

Large School Category

First Place	Springboro HS
Second Place	Carroll HS
Third Place	Alter HS

Medium School Category

First Place	Southeastern HS
Second Place	Catholic Central HS
Third Place	Yellow Springs HS

Small School Category

First Place	Spring Valley Academy
Second Place	Waynesfield-Goshen
Third Place	Fort Loramie

continued → → → →

BRIDGE BUILDING COMPETITION

In conjunction with the TEAMS Competition, the College of Engineering and Computer Science also sponsored a Bridge Building Competition. Ninety-six bridges were submitted and tested.

First Place (\$125) went to Montgomery County Joint Vocational School – Crystal Wise and Christy Aills.

Second Place (\$75) went to Tecumseh High School – Ed Bellman

Third Place (\$50) went to Montgomery County Joint Vocational School – Tim Bench

Fourth Place (\$30) went to Colonel White High School – Scott Ruppert

Fifth Place (\$20) went to Carroll High School - Ken Bellamy and Jerry Hollingsworth

EGG DROP CONTEST

The Russ Engineering Center's atrium was the site of the college and Wright Engineering Council sponsored egg drop competition that was held on February 26.

First Place (\$10 plus \$20 College Store Certificate) was awarded to EE major, Stan Grile.

Second Place (\$15) was awarded to EE major, Tram Pham.

Third Place (\$10) was awarded to ME major, Matthew Quam.

The **Humpty Dumpty Award** was shared by EE major, Jerry Thomas and ME major Michael Ciarlariello.

The **Albert Eggstein Award** went to Tram Pham

THANK YOU

Each year the activities and events sponsored by the College of Engineering and Computer Science during National Engineers Week grow, as does the support of our friends throughout the entire university and the community.

Through our celebration of National Engineers Week, we try to focus attention on the engineering profession and to highlight the accomplishments of engineers who advance technology by turning ideas into reality to better our lives.

Thank YOU for helping us.

TOUR GUIDES

Mary Brickner
Melissa Browning
Andrea Feldmann
Chet Hakanson
Bob Hale
Steven Keller
Paul Kladitis
Chip Langdon
Pat McWhorter
Dan Mevis
Paul Niedermier
Debbie Piorkowski
Jen Reynolds
Kathy Roethler
NN Schneider
Sue Seitz
Jamie Smith
Greg Underwood

TEAMS HOSTS

Mary Alspaugh
Nancy Binkley
Nalda Blair
Meika Clark
Sharon Coates
Andrea Feldmann
Dave Fautheree
Jeanne Fraker
Lori Gabriel
Becky Harris
Sara Hohne
Marcia Hutcheson
Lillian Johnson
Steve Keller
Janice Luce
Suzy McGovern
Nancy Raisch
Brian Rathbun
Sherry Rathbun
Jen Reynolds
Jane Schelb
Teri Shepherd
Larry Smith
Barry Woods

SCORERS FOR TEAMS

Dolores Davis
Billy Friar
Anita Lashbrook

BRIDGE BUSTERS

Greg Wilt, Doug Supp and Giorgio McBeath headed the team of bridge busters.

Holly Bledsoe
Tom Harter
Dale Kramer
Ralph Omler
Ray Orf
Jeff Reeder
Kathy Roethler
NN Schneider
Leslie Tack
Ramesh Thiagarajan
Scott Thomas
Doug Yost

AIRPLANE CONTEST WORKERS

Mike McDonough
Jeff Reeder
Doug Supp
Scott Thomas
Robyn Thompson
Greg Wilt

ACTIVITIES DIRECTORS

Airplane Competition – Scott Thomas
Design Competition – Jenny Reynolds
Egg Drop Contest – Debbie Piorkowski
Scavenger Hunt – NN Schneider
Mexican Fiesta – Jim Dock

Special thanks to Crete Vandeval, Glenn Hoops, and the staff at the Nutter Center who did a fantastic job during the 1993 TEAMS Competition.

Special thanks to the student workers in the college office for a job well-done – Kathy Kennedy, Kris Martin, Ranella Pugh, and Travis Schwenke.

Area Business and Community Leaders Join TEAMS 1993

The College of Engineering and Computer Science wishes to thank the local business and community leaders who have offered encouragement and support to the 1993 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

Beaver-Vu Bowl

Beaver-Vu Skate Center

Books & Company

Dayton Society of Professional Engineers

Domino's Pizza

Dynamic Technology

Engineering and Science Foundation of Dayton

Holiday Inn Conference Center/I-675

Kinko's Copies

Lee's Famous Recipe

Marketeers

Max and Erma's Restaurants, Inc.

McDonald's Restaurants

Nutter Center Box Office

Frank M. Tait Foundation

WSU Bookstore

WSU Foundation

LAST CALL FOR STUDENT TECHNICAL PAPERS

The Engineers Club of Dayton and the Engineers Club of Dayton Foundation announce the 1993 Ermal 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 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 will be published in *The Engineer*.

Five (5) copies of each paper must be received for review by March 31, 1993.

RULES

1. The paper may be based on the student's Ph.D. dissertation, MS thesis, se-

nior 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 nine 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

(U.S., undergraduate, graduate, 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, 1993. 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 March 31, 1993

Career Services

P&G ENGINEERS

Procter and Gamble (P&G) invested \$861 million on research and development in 1991-1992, and R&D outlays will continue to grow this year. Newly hired engineers will work in the development, product research or packaging positions. Salaries are competitive with leading companies.

Procter and Gamble is popularly thought of as a soap company, and it is - but it is a whole lot more. Its six principal areas of business are: beauty care, cosmetics, and fragrances; food and beverages; health care products; laundry and cleaning; and paper products. Their facilities are in compliance with all ADA requirements, including both access and workplace accommodation.

Procter and Gamble is having a very strong year and is glad to be in the hiring market. The majority of new engineers will work in technical centers located in Cincinnati, OH, Hunt Valley, MD, and Norwich, NY. Some jobs will be overseas.

HOW TO TAILOR YOUR JOB SEARCH TO THE JOB YOU WANT

1. Decide what you are trained to do best and what you like to do best of all. Aim your approach toward using those skills.

2. Target companies that you want to be associated with because they can offer you the work you desire and because you have the skills that can contribute to the success of those organizations. You can find information on this through journals in the library, as well as business news sources and professors in your department.

3. Know the initiatives of those companies through research. Read journals in the library, access NEXUS and ABI information data bases for information on the economic strength of the companies in which you have an interest.

This whole process will take between 30 days and 6 months, on average. The results are controlled by the amount of research and networking you invest, along with your ability to translate your skills to the marketplace.

COLLOQUIUM

Friday, April 2, 1993

3:00 pm - Room 145 Russ Engineering Center

Mark Wasson and Fu-qui Zhou, Ph.D.

Mead Data Central, Inc., Dayton, Ohio

"Processing Large Text Corpora: Shallow vs. Deep"

College of Engineering and Computer Science

SUGGESTION for the DEAN

Name _____

Major _____ Year _____ Telephone No. _____

Mailing Address _____

Subject of Suggestion: _____

I. My Suggestion Is (describe completely, continue on separate paper if necessary)

II. Describe Expected Benefits (continue on separate paper if necessary)

Signature Date

DEAN'S LIST

Fall Quarter 1992

BIOMEDICAL ENGINEERING

Scott W. Barr	Honors
Wendy R. Birt	Honors
Brett L. Keaffaber	Honors
Brian D. Marriott	Highest Honors
Corrina T. Monett	Honors
Rebecca L. Morrisey	Honors
Dax B. Pitts	Highest Honors
Jonathan R. Raker	Highest Honors
Jenny L. Reynolds	Highest Honors
James J. Richardson	Honors
Susanna L. Seitz	Honors
Angela K. Slaughter	Highest Honors
Jeevaganthan Somakandan	High Honors
David E. Spanier	Highest Honors
Leslie M. Tack	Highest Honors
Donna J. Terrien	High Honors
Alicia M. Woyton	Highest Honors
Lisa A. Wurst	High Honors

COMPUTER ENGINEERING

Adriana M. Ardila	Honors
Gregory R. Bothe	Highest Honors
Douglas S. Brungart	Highest Honors
Dale L. Cramer	Honors
Pankaj K. Dhingra	Highest Honors
Ryan D. Dietz	High Honors
Denise S. Gilliam	Honors
Geoffrey C. Linthicum	Highest Honors
Patrick A. McWhorter	Honors
Paul D. Niedermier	Highest Honors
David W. Nims	Highest Honors
Steven T. Ochry	High Honors
Leesa J. Phillips	High Honors
Roger M. Prenger	Highest Honors
Amy M. Schmackers	High Honors
Barrie R. Timpe	Highest Honors
Samir Zabalawi	High Honors

COMPUTER SCIENCE

Gary L. Anderson	Honors
Douglas P. Ardrey	Highest Honors
Nicole A. Brewer	Honors
Amy J. Dommett	Highest Honors
Jason M. Evans	Highest Honors
Lawrence L. Gould	Honors
Larry J. Hutson	High Honors
Edward Lewis	High Honors
Jason M. Maddox	Highest Honors
Mark J. Pelea	Honors
Brian K. Poplin	Honors
Vicki J. St Calir	High Honors
Greg M. Underwood	Honors
Michael R. Vanhorn	Highest Honors
Todd J. Whaley	High Honors

ELECTRICAL ENGINEERING

Bryan D. Albers	Highest Honors
Scott N. Barker	Honors
Trent E. Beighle	High Honors

Daniel D. Blevins	Honors
Dave W. Blue	Highest Honors
Jennifer L. Bolan	Honors
Thomas A. Bridgman	High Honors
Stephen M. Chu	Highest Honors
David E. Clark	High Honors
Kevin S. Deeds	Honors
Lee E. Deeter	Honors
Willard W. Dewey	High Honors
Alan J. Frazier	Highest Honors
Scott L. Gilliam	High Honors
Donald G. Gonzalez	Honors
Adam J. Habig	Honors
Brett M. Harmon	Highest Honors
Carl C. Heid	Honors
James P. Heineman	Honors
Lei Jin	High Honors
Shawn L. Kelly	High Honors
Timothy J. Loughman	Highest Honors
Sanjeev Mehrotra	Highest Honors
Vikas Mehrotra	Highest Honors
Eric J. Powers	Highest Honors
David O. Ramos	High Honors
Aric C. Rothman	Highest Honors
Kelly L. Sexton	High Honors
Timothy H. Shively	High Honors
Jeffrey S. Trapp	High Honors
Tyson B. Whitaker	Highest Honors
Wesley E. Willis	High Honors

ENGINEERING PHYSICS

Robert L. Blackburn	Highest Honors
Jamsheed Reshad	Honors
John R. Welch	High Honors

HUMAN FACTORS ENGINEERING

John R. Barber	High Honors
Jennifer J. Battig	Highest Honors
William J. Giffen	Highest Honors
Steven M. Krile	Honors
Jason D. Morris	High Honors
Brian E. Oskey	Highest Honors
Jacquelyn A. Post	High Honors
Kasey C. Sims	Highest Honors
Amy E. Strobel	Highest Honors

MATERIALS SCIENCE AND ENGINEERING

Joseph T. Hunter	Honors
William C. Markwell	High Honors
William J. Reeder	Highest Honors
Jing Shan	Honors
Jennifer L. Wilson	High Honors

MECHANICAL ENGINEERING

Scott T. Blanford	Highest Honors
Jason C. Brown	Highest Honors
Todd E. Brown	Highest Honors
Nathan A. Buckner	Honors

Michael L. Dunn	Highest Honors
Robert W. Eager	Honors
David A. Henn	Highest Honors
Raymond C. Hopkins	Highest Honors
Richard K. Huff	Honors
Eric S. Kistner	Highest Honors
Scott W. Kreitzer	Highest Honors
Jeffrey L. May	Highest Honors
Mark J. Mayhan	Honors
Christopher M. Penick	Highest Honors
Paul A. Peterson	Highest Honors
Andrew J. Prenger	Highest Honors
Charles E. Price	Highest Honors
Paul D. Robbins	Honors
Robert L. Schlarman	Honors
Beth E. Shadownes	High Honors
Jay M. Shores	High Honors
Jason E. Susong	High Honors
Chris S. Weatherbie	Highest Honors
Thomas J. Witman	High Honors

PRE-BIOMEDICAL ENGINEERING

Sharon E. Liebel	High Honors
Steve H. Sur	Honors
Brian M. Werst	Highest Honors

PRE-COMPUTER ENGINEERING

Anibal Abdulkhalek	Highest Honors
James J. Hooker	Honors
Steven W. Houtchen	Highest Honors
Quang M. Hoang	Highest Honors

PRE-COMPUTER SCIENCE

Kern J. Angell	Highest Honors
Don W. Mahurin	Highest Honors
Pamela A. Mason	Highest Honors
Chong Teck Soo	High Honors

PRE-ELECTRICAL ENGINEERING

Ravi Balachandran	Highest Honors
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PRE-ENGINEERING

Issam M. El Chayeb	Honors
Mike L. Minges	Highest Honors
Nick E. Pierron	High Honors
Siglinda M. Pitts	High Honors

PRE-HUMAN FACTORS ENGINEERING

Julie L. Blanton	Highest Honors
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PRE-MATERIALS SCIENCE AND ENGINEERING

Abraham C. Geroge	Highest Honors
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PRE-MECHANICAL ENGINEERING

Geroge H S Baldwin	High Honors
Andrew R. Keller	Highest Honors

ATTENTION HIGH SCHOOL STUDENTS

Interested in spending the day on campus with a college student? Call the college office for information about our Shadowing Program – 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.

CONSTITUTIONAL REVISIONS FOR STUDENT GOVERNMENT

The WSU Student Government is in the process of revising the constitution to divide the duties of the position of Director of Public Relations and Legislative Affairs.

The legislative aspects of the position will then be handled by a vice president, giving more time to the director of public relations to make weekly press releases and edit the student government newsletter, among other tasks.

The vice president will also assume many other responsibilities, including taking on the position of president of the student body should the current president resign or be removed from office. The vice president and president will be elected by plurality vote of the student body on a single ticket during the elections of winter quarter.

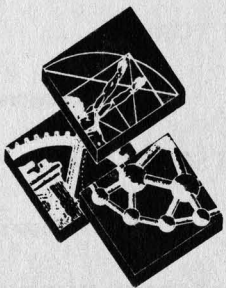
To make this happen, the student body must vote in favor of the constitutional revisions and more than 800 members of the student body must participate in the voting process. Student government elections will occur March 8, 9, and 10. Please demonstrate your concern for Wright State and your dedication to the College of Engineering and Computer Science by voting on one of these three days for a new student body president, vice president and representative for the College of Engineering and Computer Science.



**Wright State
University**

College of Engineering and
Computer Science
Dayton, Ohio 45435

Office of the Dean



ENGINEERS
Turning Ideas
Into Reality.