



BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

October 2002

Wright State University Dayton, Ohio 45435

Vol. 19 No. 1

Important Dates

- October 8
Last day to drop a class without a grade
- October 22
Last day for all but freshmen to drop a class with a grade of "W"
- October 23
CECS Club Fair - 11:00 AM
- November 11
UNIVERSITY CLOSED - Veteran's Day Observed
- November 12
Last day for freshmen to drop a class with a grade of "W"
- November 26
Last day of fall quarter classes
- November 28 - December 1
UNIVERSITY CLOSED - Thanksgiving Holiday
- December 2-7
Final Exam Week
- December 6
Order of the Engineer Steel Ring Ceremony - 7:00 PM
- December 7
Fall Quarter Commencement
- December 9
Last day to apply for March graduation
- December 24-25
UNIVERSITY CLOSED - Christmas Holiday
- January 1
UNIVERSITY CLOSED - New Years Holiday
- January 6
First day of winter quarter classes

2002 College of Engineering and Computer Science Awards

On June 7, 2002, the College of Engineering and Computer Science presented awards at its annual Awards and Recognition Ceremony. Some of the awards presented at the ceremony are listed below. These awards demonstrate the exceptional quality of our students, faculty and staff and their dedication to the College and the University.

OUTSTANDING LECTURER



Dr. Leo Finkelstein is a Lecturer and the Director of Technical Communications in the College of Engineering and Computer Science. Dr. Finkelstein received a B.A. degree in Television and Motion Pictures from the University of North Carolina and an M.A. in Speech and Theatre from the University of Tennessee. For several years he was a motion picture/television writer-producer-director for the Aerospace Audio-visual Service at Norton Air Force Base in California. In 1978, Dr. Finkelstein received a Ph.D. in Communication and Rhetoric from Rensselaer Polytechnic Institute and began working as the Director of Technical Writing and an Associate Professor with the Department of English for the USAF Academy in Colorado Springs, Colorado. While there he designed, developed, and operated an upper-division course in technical writing which, at the time, was the largest technical writing program in the U.S. In 1981, Dr. Finkelstein came to Wright-Patterson AFB where he became the Assistant to the Commander for Corporate Communications for the Air Force Logistics Command until 1989.

In 1989, Dr. Finkelstein came to Wright State to serve as the Assistant to the Chair and Instructor in the Department of Computer Science and Engineering. He developed and taught specialized courses in technical communication. In July of 1992, he became the Director of Technical Communications and Lecturer for the College of Engineering and Computer Science. Dr. Finkelstein teaches core department and college courses, as well as university honors courses. Some of his students have remarked that he "...actually makes the student want to succeed, not only for the grade, but also so that he knows he or she did well." Dr. Finkelstein brings together a wealth of academic and real-world experience to create truly unique learning experiences for all of his students.

EXCELLENCE IN PROFESSIONAL SERVICE

Dr. Marian Kazimierczuk is a Professor in the Department of Electrical Engineering. Dr. Kazimierczuk received his M.S., Ph.D., and Doctorate of Science degrees in Electrical Engineering from the Technical University of Warsaw, Poland, in 1972, 1978, and 1984, respectively. Dr. Kazimierczuk joined

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

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the electrical engineering faculty at Wright State University in 1985. Since this time, he has demonstrated an almost unbelievable dedication to serving the professional community and the university.

Everything he does he takes seriously, and somehow he is always functioning at 1,000 percent. He has had 108 journal articles and 96 conference papers published. He has supervised 34 master's students and 7 Ph.D. students. In addition to the 8 patents he has received, Dr. Kazimierczuk has received over \$415,000 in research funding. He also serves as a reviewer for 25 technical journals and publications.

His service on the numerous departmental, college and university committees is outstanding. He attends every meeting of every committee, and reads every word of every document of every meeting. He takes committee service very seriously, and he works diligently to fight for what he believes. Dr. Kazimierczuk received the IEEE Harrell V. Noble Award in 1991 for his contributions to the fields of aerospace, industrial and power electronics. He was also a recipient of the 1991 Presidential Award for Faculty Excellence in Research from Wright State, the 1993 and 2001 Excellence in Teaching Awards from the College of Engineering and Computer Science, and the 1995 Presidential Award for Outstanding Faculty Member.

EXCELLENCE IN RESEARCH



Dr. Jennie Gallimore is a Professor in the Department of Biomedical, Industrial, and Human Factors Engineering. Dr. Gallimore received her B.A. and M.A. in Psychology from California State University at Northridge. She later attended Virginia Polytechnic Institute and State University and received a Ph.D. in Industrial Engineering & Operations Research and Human Factors Engineering.

She came to Wright State in 1989 where she began teaching many of the upper-level courses in human factors engineering. She has authored or co-authored over 25 articles and publications in the areas of aviation psychology, human-computer interaction, and ergonomics, to name a few and has received almost \$3 million in research funding while at Wright State.

Dr. Gallimore is doing extraordinarily important work involving advanced cockpit design deficiencies, pilot spatial disorientation, and sensory reflex problems - the very things that cause such a large percentage of aviation accidents and kill so many people each year. Not only is her work in these areas critical for general and commercial aviation safety, it is also the subject of substantial interest in military aviation, especially by the U.S. Air Force and the U.S. Navy, as well as

researchers focusing on the medical dimensions of human error. Additionally, her work in developing new interfaces for remotely piloted vehicles and human performance in virtual environments is a key part of the nation's evolving defense effort, with particular application to anti-terrorism activities. In addition to her research activities, Dr. Gallimore currently supervises 6 Ph.D. students and 2 master's thesis students. She has also served on several committees at the department, college, and university level.

Dr. Nathan Klingbeil is an Assistant Professor in the Department of Mechanical and Materials Engineering. Dr. Klingbeil was nominated primarily by his students in ME 412/612 Finite Element Analysis. One of his students stated that he "knows what he teaches, forwards and backwards. He was able to answer all questions, he was unstoppable!" Many students said that his thoroughness and clear explanations on difficult material made it a lot easier for them to understand the subject. One of his graduate students may have described him the best, "he is an energetic and excited teacher who leads the class along the path of knowledge rather than letting it be an 'exercise for the student'."

EXCELLENCE IN TEACHING



Dr. Klingbeil received his bachelor's degree in mechanical engineering in 1993 from the University of Dayton. In 1995, he received his Master's degree and in 1998, a Ph.D., both in mechanical engineering from Carnegie Mellon University. Dr. Klingbeil joined the faculty at Wright State in September of 1999 and began by teaching ME 415 Mechanical Design II his first quarter here. Since joining Wright State, he has received excellent evaluations from his students and actually has an average of 93% or a grade 'A' from students.

He has had 10 papers published and participated in 14 professional presentations. While at Wright State, he has also received over \$140,000 in research grant funding.

Mr. Kender has served as an Adjunct Instructor for the Department of Biomedical, Industrial and Human Factors Engineering in the College of Engineering and Computer Science since 1997. He has taught at Wright State University since 1992 for both the College of Science and Mathematics, as well as the College of Education and Human Services. He received his Bachelor of Science in

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EXCELLENCE IN ADJUNCT TEACHING



He received his Bachelor of Science in

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Faculty Facts

Emmert, John (EE)

Hardware Design of Real Time, Highly Adaptable Control for Intelligent Radio Frequency Front Ends
Department of Defense, Air Force, Air Force Research Laboratory
7/1/02 - 6/30/05.....\$100,000

Garcia, Oscar (CSE)

Priorities in Graduate Education
Ohio Board of Regents
10/1/97 - 6/30/02.....\$109,607

Grandhi, Ramana (ME)

Nonlinear Analysis of Advanced Composites in a Thermal/Acoustic Environment
Anteon Corporation
7/17/02 - 1/10/04.....\$182,500

Grandhi, Ramana (ME)

DAGSI Cost Share: Development of a Thermo-Mechanically Induced Geometric Variance Estimator
Dayton Area Graduate Studies Institute
7/1/01 - 6/30/03.....\$30,000

Hangartner, Thomas (BIE)

Evaluation of a Novel Treatment for Osteoarthritis of the Knee
Procter and Gamble Company
8/6/99 - 12/31/03.....\$68,997

Hangartner, Thomas (BIE)

Analysis of Cardiac Images by Computed Tomography
Kettering Medical Center
9/21/00 - 9/15/03.....\$6,600

Harris, Chester (ITRI)

User Modeling and Optimization of Lexis-Nexis Queue Management
Lexis-Nexis
8/1/02 - 1/31/03.....\$34,799

Hong, Lang (EE)

Coupled GMTI Target Tracking with STAP Signal Processing
Calspan - University of Buffalo Research Center
7/26/02 - 12/31/02.....\$73,387

Hong, Lang (EE)

Multirate Interacting Multiple Model Fusion
MRLets Technologies, Inc.
7/1/02 - 3/31/03.....\$20,000

Klingbeil, Nathan (ME)

GOALI: Laser Additive Manufacturing of Aerospace Components
National Science Foundation
8/1/02 - 7/31/05.....\$150,000

Lieh, Junghsen (ME)

Advanced Controls System for Manufacturing Processes - Phase III
Delphi Chassis Systems
6/30/02 - 6/30/03.....\$54,000

Menart, James (ME) and S. Malik

Net Emission Coefficients for Argon-Iron Thermal Plasmas
Paper published in the Journal of Physic D: Applied Physics, Vol. 35, p. 867-874, 2002.

Narayanan, S. (BIE)

Bay of Biscay Agent Simulation Environment
Air Force Institute of Technology
5/1/02 - 7/31/02.....\$19,029

Phillips, Chandler (BIE)

Received the John Paul Stapp Award from the Aerospace Medical Association on May 9, 2002 in Montreal, Canada. This award is presented to recognize outstanding individual contributions in Aerospace Biomechanics and progressive research in mechanical forces injury protection.

Quek, Francis (CSE)

REU Supplement: Cross-Modal Analysis of Signal and Sense
National Science Foundation, Research Experiences for Undergraduates
9/1/99 - 8/31/03.....\$50,000

Rizki, Mateen (CSE)

Evolving Pattern Recognition Systems
Department of Defense, Air Force, Air Force Research Laboratory
5/1/99 - 12/31/02.....\$87,500

Shang, Joseph (ME)

Develop Modeling and Simulation Capability for Magneto-Gasdynamic Phenomena
SelectTech Services Corporation
6/17/02 - 9/13/02.....\$18,000

Shaw, Arnab (EE)

Controlling the Apparent Vocal Effort of Synthetic Speech
Veridian Engineering
1/2/01 - 12/21/02.....\$4,996

Siferd, Raymond (EE)

Parallel Subsampling Frequency Interleaved Delta Sigma Bandpass ADC
Systran Federal Corporation
6/3/02 - 3/2/03.....\$33,000

Wolff, J. Mitch (ME)

Shock Tube Testing of Pressure Sensors
Orbital Research, Inc.
6/1/02 - 5/31/04.....\$21,927

Wolff, J. Mitch (ME)

Precision Design
Department of Defense, Air Force, Air Force Research Laboratory
12/7/01 - 12/31/04.....\$39,570

Wolff, J. Mitch (ME)

Dynamic Collaboration of Pressure Sensors at Room and Elevated Temperatures
National Aeronautics and Space Administration
8/6/02 - 12/31/02.....\$8,000

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Education with a focus on Mathematics from Miami University, a Bachelor of Science in Electrical Engineering from the Air Force Institute of Technology, and a Master of Education in Educational Technology and a Master of Science in Human Factors Engineering from Wright State University. Before joining the faculty at Wright State, Mr. Kender completed a 24-year career with the United States Air Force. Mr. Kender was twice recognized by Clark State Community College with the Adjunct Faculty Award for Professional Excellence. He also received a Merit Award from the Johns Hopkins National Search for Computing to Assist Persons with Disabilities. He is a member of the International Society for Technology in Education and the Honor Society of Phi Kappa Phi.

EXCELLENCE IN TEACHING ASSISTANCE



Joe Tritschler has been blowing up laboratory equipment for so long that, even as a child, it seemed inevitable that he would one day be teaching labs at the university. His fascination with electronics has never diminished, and remains second only to his fascination with music. Naturally, the technology

of sound reproduction continues to be the focus of his graduate work at Wright State University. Joe insists that a hands-on approach to electronic circuitry is crucial to the complete understanding of the engineering concepts involved, and this is evident by the sheer number of hours he has spent in the lab working, sometimes late at night.

When Joe's not testing the limits of his bench equipment, you'll find him working on his '60 Cadillac Fleetwood, playing gigs with his band, Crazy Joe and the Mad River Outlaws, and contemplating the social, political, and philosophical relevance of his favorite film, "Shaft." He plans to earn his Master's Degree in Electrical Engineering in June of 2003.

OUTSTANDING STAFF MEMBER



Jennifer Limoli is a Secretary in the Department of Computer Science and Engineering. Jennifer began working at Wright State as a student worker in the medical records department of the Frederick A. White Health Center in 1989. In 1991, she was hired to work as a clerical assistant for the Department of Computer Science and Engineering.

She worked in the Research Park office until the Russ Engineering Center was built. In 1995, she was hired on as a part-time secretary for the department and became a full-time secretary in 1999.

Jennifer graduated from Wright State in 1995 with a B.A. in English with a Business minor. She currently lives in Beavercreek with her husband, Tarek, and cat, Whitey. She enjoys music, singing and ceramics.

DEAN'S COMMENDATION



At the June ceremony, the Dean decided to recognize outstanding student clubs with a special commendation for the first time.

One of the recipients of the 2002 Dean's Commendation is the Wright Engineering Council. During

the 2001-2002 academic year, the Wright Engineering Council was very active in a variety of activities that provided direct support to the College of Engineering and Computer Science. Members of WEC:

- Organized and coordinated the student activities to celebrate National Engineers Week
- Organized a new High School Visit Program to encourage high school students to study engineering or computer science in college
- Have been active in the National Association of Engineering Student Councils
- Attended, presented, and received several awards at the Region IV conference of the National Association of Engineering Student Councils held at Purdue University
- and Planned and organized an Egg Drop Competition for high school students

The WEC members represent the CECS student body as a whole and are dedicated to serve the collective needs of the students and the College of Engineering and Computer Science. These are motivated students who have used their individual skills and talents as a group to bring honor and recognition to the CECS and Wright State University.



The second recipient of the 2002 Dean's Commendation is the National Society of Black Engineers (NSBE) Student Chapter. NSBE was very busy during the 2001-2002 academic year providing support to area

schools and participating in several conferences. Members of NSBE:

- Consistently tutored students at the Omega School of Excellence with the University of Dayton NSBE chapter
- Hosted a career awareness day for high school stu-

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dents

- Participated in Habitat for Humanity
- Volunteered services for MathCounts: A math competition for elementary age students
- Won the NSBE Region IV African American Quiz Bowl
- Received the Bolinga Center Leadership award
- Attended three Regional Conferences and the National Convention

The NSBE members have dedicated themselves to the pursuit of increasing the number of black engineers who excel academically, succeed professionally, and positively impact the community.

DEAN'S AWARD



When appropriate the Dean has the pleasure of selecting a student who excels in academics, leadership, and service to the college. Linda J. Moore, a computer engineering student, exemplified all three of these characteristics.

She has provided outstanding service to the college. In addition, Linda is a leader, an outstanding student academically, and a pleasure to work with.

She is always willing to help no matter how small or large the task is despite being active in countless activities. Academic pursuits are only one part of her accomplishments at Wright State University. Linda has been a member of or served with five professional societies and has led or organized nine presentations or activities. She has been a Calculus Teaching Assistant, a leader in the College's Academic Advantage Program, an organizer of events for high school students, and a promoter of college events and activities.


Linda is a highly motivated individual - the type of student every college desires to lead their student activities and provide support to their recruiting and retention programs. The College of Engineering and Computer Science was delighted to present the 2002 Dean's Award to the President of the Wright Engineering Council, Linda J. Moore.

Congratulations to all of the 2001-2002 award winners!

— Student Facts —

Daniel A. LeMaster, a senior majoring in engineering physics, was selected for the 2002-2003 Presidential Scholar Award. The award consists of full-tuition scholarship for this year and requires him to complete a research project under the supervision of President Kim Goldenberg. Daniel has been very active at Wright State University by being involved in the Tau Beta Pi (engineering honor society), Sigma Pi Sigma (physics honor society), the Society of Physics students, the Delta Tau Delta fraternity (serving as secretary and director of academics), and the Golden Key National Honor Society.

He has participated in the University Honors Program and the College's Engineering Leadership Institute. He was the 2000-2001 recipient of the Harry Moore Scholarship and was named the University Libraries' Top Scholar for the College of Engineering and Computer Science. Most recently, Dan was awarded the Ohio Space Grant Consortium scholarship for his proposal to study the effects of radiation damage on semiconductors. He was also selected as the 2001-2002 Outstanding Student in Engineering Physics at the College of Engineering and Computer Science's annual awards ceremony. He has also conducted a help room for the Department of Electrical Engineering, providing assistance and tutoring students in Linear Systems. It was Daniel's excellent scholastic records, extracurricular activities, and his outstanding interview that impressed the award panel and ultimately resulted in his selection for the award.

BITs & PCs College of Engineering and Computer Science Wright State University 	
Dean James E. Brandeberry, Ph.D., P.E.	Editor Jenny Garringer
<p><i>BITs & PCs</i> is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.</p> <p>The current issue of <i>BITs & PCs</i> is available on the Web at http://www.cs.wright.edu/bitsandpcs/. Copies are also available in the College office, any Department office, literature racks in the Russ Center Atrium, Russ Center Study Lounge, or the Student Club Room.</p> <p>The next issue of <i>BITs & PCs</i> will be published the week of November 4, 2002. To submit items for this issue, call the College of Engineering and Computer Science at (937) 775-5001, or send email to jgarringer@cs.wright.edu by October 21, 2002. The College of Engineering and Computer Science reserves the right to edit all material for publication.</p>	

***The
Dayton Chapter
of the
Ohio Contractors Association
invites you to participate
in their annual
Constructor For A Day
Program***

**October 17, 2002
8:00 AM**

The day will include site tours of heavy and highway construction projects in the greater Dayton area, as well as a visit to a working asphalt or concrete plant and an engineering/design consulting firm.

The day will conclude with dinner at the monthly business meeting, which usually ends around 9:00 PM.

Many OCA members will be seeking interns and co-op students in addition to full-time employees.

This program offers students an opportunity to view real-life applications of their classroom studies as well as the chance to meet potential employers.

For more information, please contact

L. P. "Larry" DeRoo
Vice President
Ahern & Associates, Inc.
3815 Springfield-Xnia Rd.
Springfield, OH 45506
(937) 322-5213
FAX (937) 322-5233

Fundamentals of Engineering Exam

If you are a senior, it is not too early to think about preparing for the FE exam in April 2003. The refresher course, EGR 482, will again be offered during winter quarter 2003. The student application deadline for the FE exam is Feb 12, 2003.

New planning information for sophomores and juniors! The four years of experience required before taking the second exam, the PE exam, has been modified. Up to two years of experience prior to college graduation is now allowed and that can include co-op.

For more information, contact Dick Rathbun, in 405 Russ at (937) 775-5001 or e-mail drathbun@cs.wright.edu.

Receive Credit Towards P.E. Licensure

The law has changed regarding the type of experience allowed for Professional Engineer (P.E.) licensure. Under the new law up to two years of work experience prior to college graduation is allowed. This means your co-op experiences can count toward receiving licensure. Therefore, if you have a full-time or part-time job that is related to your major you should be registered for CPE 091 or CPE 092 through the office of Career Services. Registering these work experiences will allow you to take advantage of this new law.

Network Improvements in Russ Center

Wireless network access is now available in the area around the 158 Russ Student Lounge as well as in other locations around campus. Documentation is now available at the following URL:

<http://www.wright.edu/cats/docs/docroom/pc/WirelessConnect.htm>

Anyone with a CATS account can now plug a PC laptop to any of the six GREEN network ports in the 158 Russ Student Lounge. Documentation is available for this at the following URL:

http://www.cats.wright.edu/catsweb/cs/docroom/pc/laptop/LaptopWindows95_98.htm

This URL is geared toward Windows 95/98 and is somewhat dated, but the procedures are very similar for Windows 2000 and XP. The relevant sections are II.1 for setup and III for authentication.

The Mathematics Learning Center provides free walk-in assistance to students enrolled in most introductory math courses. Visit www.wright.edu/univ_college/mlc to check the location and hours for your course.

Mathematics Learning Center

159 Russ Engineering Center
240 MM Building

Narayanan Appointed Chair of BIE Department



The College of Engineering and Computer Science is pleased to announce that S. Narayanan has been appointed Chair of the Department of Biomedical, Industrial, and Human

Factors Engineering in the College of Engineering and Computer Science at Wright State University, Dayton, Ohio. Dr. Narayanan became a Wright State University faculty member in 1994 after receiving his Ph.D. in industrial and systems engineering from the Georgia Institute of Technology, Atlanta.

Dr. Narayanan's research is in the areas of modeling and simulation of complex systems in which the human operator plays a major role. His research efforts have the dual objectives of contributing to basic knowledge in the area

of model-based aiding and producing proof-of-concept systems and technology solutions for practical problems in cognitively complex tasks such as planning, decision-making, information seeking, and troubleshooting. Domains of application include logistics systems, production systems, and supervisory control of remotely piloted vehicles.

Dr. Narayanan is currently an associate editor for *IEEE Transactions on Systems, Man, & Cybernetics* and an associate editor for the *International Journal of Modelling and Simulation*. He has been serving on the fundamentals of engineering exam committee for the National Council of Examiners for Engineering and Surveying (NCEES) since 1996 and is the Associate Vice President of Academic Activities for the Society for Modeling and Computer Simulation International. He received the Research Excellence Award in the College of Engineering and Computer Science at Wright State University in 2000 and

was been promoted to the rank of Professor in 2002.

Dr. Narayanan seeks to build collaborative partnerships with industry, government, and other academic institutions to promote excellence in education, research, and applications of biomedical, industrial, and human factors engineering.

Please join us as we welcome Dr. Narayanan to the administrative ranks of the College of Engineering and Computer Science.

Russ Engineering Center Regulations

Russ Loading Dock Fire Lane

Wright State University has been advised that the Fairborn Fire Department has designated the entire area behind the Russ Engineering Center as a fire lane and the parking of vehicles at any time, unless occupied and ready to move, is illegal.

Posting in Russ Center

- No posting of announcements, pictures, signs, cartoons, etc. on lobby walls, hall walls, office doors or laboratory doors is allowed in the Russ Center.
- Faculty hours may be posted in the holder that is located outside of each faculty office door. Please do not hang signs, pictures, etc. below this holder.
- GTA/GRA hours may be posted in the holder that is located outside of each GTA area office or lab.
- Special meeting announcements may be approved for posting by the dean's office. Announcements will be placed

on foam core boards on tripods in the lobby. Contact the dean's office for approval and placement arrangements.

- Laboratory door announcements, schedules, etc. may only be placed in the holders that are on the wall outside of each laboratory or 8 1/2" x 11" holders can be ordered and placed on the door by the Sign Shop. (For an example of the holder, please see the Periodical Reading Room door, 404 Russ Center, or the Club Room door, 163 Russ Center)
- Engineering Clubs and student organizations may post announcements, etc. inside the glass cases located in the hallway outside the Club Room on the first floor.

Russ Center Classrooms

- No beverages or food are allowed in the classrooms of the Russ Center.
- Do not move chairs, tables, overheads, etc. from one classroom to another.

CECS Student Wins OmniTech Computer



Each summer the College of Engineering and Computer Science holds its Academic Advantage Program. The program is designed to be a

math skills refresher for incoming students. Students are taught by engineering professors to their math placement level. After a week of instruction students have a chance to re-take the math placement test and possibly place into a higher math course for fall quarter. This year there were 125 students registered for the program and 69% of the students that took the test over again moved up at least one level.

As an added bonus during the program, each student was eligible to win a Pentium 4 computer system with 40 GB hard drive, DVD, and 17" monitor which was donated by OmniTech. In addition, several businesses including T.G.I. Friday's, King's Island, Young's Jersey Dairy and many more, donated other prizes that were given out during the course of week. Daniel Garling, a freshman majoring in computer engineering, won the OmniTech computer system on the final night of the program.

A special thanks goes out to all of the companies that donated items for the program as well as all of the CECS students that helped out by being math teaching assistants and student leaders for the evening activities during the week.

SCHOLARSHIPS AND FELLOWSHIPS

The **National Science Foundation** is accepting applications for three-year graduate research fellowships in science, mathematics, and engineering. Applicants must be U.S. citizens or nationals, or permanent resident aliens of the United States. Fellowships are intended for individuals in the early stages of their graduate study in science, mathematics, or engineering. Students generally apply during their senior year of college, the first year of graduate school, and the beginning of the second year of graduate school. Fellowships are awarded for graduate study leading to research-based master's or doctoral degrees in fields supported by the NSF, including mathematical, physical, biological, behavioral and social sciences; engineering; the history of science and the philosophy of science; and for research-based Ph.D. degrees in science education. Awards consist of \$21,500 stipend for twelve-month tenure; cost-of-education allowance of \$10,500 per tenure year; and a one-time \$1,000 International Research Travel Allowance. Application deadline is November 7, 2002. Visit www.oraу.org/nsf/nsffel.htm for all materials and information.

The **National Security Education Program** is accepting applications for the David L. Boren Graduate Fellowships. These fellowships offer students a unique opportunity to expand their understanding of countries and languages critical to U.S. national security. Awards are made for a minimum of one and a maximum of six academic semesters (24 months). Overseas study is based on program expenses for a maximum of \$10,000 per semester for up to two semesters. The level of support for domestic study is flexible depending on the individual requirements of each applicant. The total maximum level of support for a combined domestic and overseas program is \$28,000. Applicants must be U.S. citizens enrolled in or applying to a graduate degree program in an accredited U.S. college or university

located within the United States. Applicants design their own programs and may combine domestic language and cultural study with overseas study. All Fellowships must include formal study of a modern language other than English and the study of an area and culture. Application deadline is January 31, 2003. If you are interested in learning more information visit www.aed.org/nsep. You may also contact the Boren Fellowships Program office by e-mail at nsep@aed.org or by telephone at (800) 498-9360.

The **Ohio Board of Regents and The Washington Center (TWC)** provide individual \$4,000 scholarships to qualified students at Ohio institutions who wish to participate in TWC internships. Students work full-time for 10 weeks, 4 days per week. They attend a weekly class, fulfill community service activities, assemble a portfolio, and meet once a week with a placement supervisor. Special program events may include visits to embassies, the White House, presentations by dignitaries or other public figures, or openings of special exhibits.

Students live in high-rise apartment buildings in the Alexandria, Virginia area close to a Metro stop. Housing is furnished and includes cooking facilities. Housing is shared with at least one other participant. Positions are available for all majors. Interested students should read The Washington Center employer file in Career Services (E334 Student Union) or visit <http://www.twc.edu>. For more information, including deadlines for each quarter please contact Debra Wilburn in Career Service at (937) 775-2556 or via e-mail at debra.wilburn@wright.edu.

The **U.S. Air Force Bioenvironmental Engineering Scholarship Program** is offering full-tuition scholarships for seniors and graduates students within one year of graduation. The Air Force will also reimburse for textbooks and other

supplies as well as supply the recipients with a monthly stipend of over \$1,000. Recipients are guaranteed employment for three years as a Bioenvironmental Engineer after graduation. U.S. citizenship is required.

For more information, contact:

TSgt Ed Lackey
2940 Presidential Drive, Suite 160
Fairborn, OH 45324-6210
E-mail: ed.lackey@rs.af.mil

The **U.S. Department of Energy** is accepting applications for two new fellowship awards.

Naval Nuclear Propulsion Fellowship Program

Students with undergraduate degrees in the physical sciences or engineering are eligible to apply. The program is open to all individuals who will be entering graduate students or who are currently enrolled in a qualified course of study but have not yet selected a thesis topic. The award is limited to 24 months for master's candidates and 48 months for doctoral candidates. Applicants must be either U.S. citizens. Completed applications must be received by December 31, 2002 for fellowships beginning the following September. An application is made up of the following sections:

- Background Information and References (3)
- Statement of Applicant's Academic and Career Goals
- List of Current and Planned Courses
- Transcripts
- GRE Scores

Nuclear Engineering and Health Physics Fellowship Program

Students with undergraduate degrees in the physical sciences, life sciences, or engineering are eligible to apply. The award is limited to 24 months for master's candidates and 48 months for doctoral candidates. Applicants must be

SCHOLARSHIPS AND FELLOWSHIPS

either U.S. citizens or permanent resident aliens. Completed applications must be received by January 31, 2003 for fellowships beginning the following September. An application is made up of the following sections:

- Background Information and References (3)
- Statement of Applicant's Academic and Career Goals
- List of Current and Planned Courses
- Transcripts
- GRE Scores

More information on these programs, as well as an application form, can be found

by visiting www.musc.edu/specialprograms or by contacting Nancy Carder at (843) 792-1469 or cardern@musc.edu.

The **Zonta International Amelia Earhart Program** is currently accepting applications for its Amelia Earhart Fellowships. The fellowships, established in honor of the groundbreaking aviator and Zonta club member, have awarded over \$5 million to women from 56 countries. The fellowships are open to women of any nationality. Applicants must: have completed a bachelor's degree in a qualifying area of science or engineering; demonstrate a superior

academic record; provide evidence of a well-defined research program in aerospace-related science or aerospace-related engineering and clearly demonstrate the relationship of their research to aerospace; and have completed one year of aerospace-related graduate study by the time the fellowship is awarded. Applications must be post-marked by November 15, 2002 and submitted to Zonta International. For more information and application forms, visit www.zonta.org or contact Zonta by calling (312) 930-5848 or emailing zontafdn@zonta.org.

College of Engineering and Computer Science Celebrates Anniversaries



Pictured: Guests watch the College of Engineering and Computer Science video presentation.

On September 5, 2002, the College of Engineering and Computer Science hosted a dual anniversary celebration to commemorate the 15th anniversary of the College and the 10th anniversary of the Russ Engineering Center. Over 160 guests, including President Goldenberg, and past president Keggeris, board of trustee members, corporate and alumni supporters, faculty, staff, and students, gathered to honor Dean Brandeberry's leadership and recognize the many achievements the college has made over the past 15 years. The College has produced over 50 company presidents and owners, and over 100 vice presidents of companies located in over 20 states.

President Kim Goldenberg began the program with a toast to Fritz and Dolores Russ in recognition of their 60th wedding anniversary. He then provided welcoming remarks to the guests.

Dean Brandeberry then gave his remarks regarding the College's success and then presented plans to the attendees on the future growth planned for the College, including: 20 new faculty, the addition of 40,000 square feet of research space, the creation of 25 new full-tuition scholarships, and the endowment of four chairs to expand current research efforts.

The event also included a presentation by keynote speaker, Jim Spence. Mr. Spence presented a history of the Wright brothers through the eyes of Orville Wright. He dressed in period costume

and entertained the audience with amusing stories around the development and construction of the Wright Flyer.

After the keynote speaker, the evening concluded with a showing of the College video presentation. The video featured current faculty and students and the research that they are conducting. The presentation also highlighted a few of our outstanding alumni and the products they are developing. The alumni featured included: Jennifer Whitestone of Total Contact, Inc., David Strobhar of Beville Engineering, and Jeff Davison of the Gasper Corporation.



Pictured (l-r): President Kim Goldenberg, Mrs. Shelley Goldenberg, Dr. Fritz Russ, Dr. Dolores Russ, Mrs. Sharon Brandeberry, Dean James Brandeberry

Spring 2002 Dean's List

BIOMEDICAL ENGINEERING

Matthew Beach Highest Honors
 Christopher Burneka Honors
 Chet Closson High Honors
 Tracy Dieker High Honors
 Adam Fournier Highest Honors
 Jennifer Garber High Honors
 Christy Harm Highest Honors
 Nicole Jackson High Honors
 Michael Jean High Honors
 Erica Johnson Highest Honors
 Michael Kahelin Highest Honors
 Maria Kahle Highest Honors
 Brian Kandell Highest Honors
 Carmelo Lamancusa High Honors
 Andrew Maley High Honors
 Jeffrey Martin Honors
 Richard Mckinley Honors
 Faridal Mutalib Honors
 Jeremy Nelson Highest Honors
 Rahel Rudd High Honors
 Michael Rueschman High Honors
 Anthony Sabatini Highest Honors
 Christian Stray High Honors
 Erin Tewksbury Highest Honors
 Michael Varney High Honors
 Jenna Warman Highest Honors
 Catherine Zelnio Highest Honors

COMPUTER ENGINEERING

Paul Anderson Highest Honors
 Chad Apple Highest Honors
 Peter Buxa Highest Honors
 Joseph Dapore Honors
 Kenneth Eber High Honors
 Adam Ewing Honors
 Matthew Gerald Honors
 Peter Gibbs Highest Honors
 Trunali Grissom High Honors
 Joseph Juhasz High Honors
 Hardik Lagad Highest Honors
 Toni Larson High Honors
 Brian Potchik High Honors
 Samuel Stone Highest Honors
 Kip Streithorst Honors

COMPUTER SCIENCE

James Arnold Honors
 Curtis Beard High Honors
 Thomas Boehnlein Honors
 William Etienne High Honors
 Ilya Figotin Highest Honors
 David Green Highest Honors
 Michael Hood Highest Honors
 Charles Johnson Highest Honors
 David Johnson Highest Honors
 David Light Highest Honors
 Noah Niekamp Highest Honors
 Wallace Parks High Honors

Joshua Rice Honors
 Rania Sahawneh Honors
 Aaron Smith Honors
 John Tobe Highest Honors
 Hideko Tsuzuki High Honors
 Christopher Ward Highest Honors
 Gary Wooddell Highest Honors

ELECTRICAL ENGINEERING

Ahmad Al-Awadhi Honors
 Clifton Bullmaster High Honors
 Matthew Casto Highest Honors
 Andrew Collier High Honors
 Ben Douglass High Honors
 Chris Evans Honors
 Matthew Graham Honors
 Henry Griffith Highest Honors
 Julie Jackson Highest Honors
 Andrew Kondrath Highest Honors
 Adam Kubach Honors
 Carrie Lawson Honors
 Benjamin Mcclurg Honors
 Ryan Mcginnis Honors
 Brian Ore Honors
 Jacob Plasters Highest Honors

ENGINEERING PHYSICS

Dean Brown Highest Honors
 Douglas Glass Honors

INDUSTRIAL AND SYSTEMS ENGINEERING

Elizabeth Chadwell High Honors
 Ben Gerlach Highest Honors
 Sara Johnson Honors
 Emily Kempfer Highest Honors
 Alan Moore Highest Honors
 Christina Snyder Highest Honors
 Daniel Stefan Honors
 Robert Warnecke High Honors
 Jeanica Williams Honors

MATERIALS SCIENCE AND ENGINEERING

Mark Benedict Highest Honors
 Joshua James Highest Honors
 Joseph Kell High Honors
 James Ryan High Honors
 Nick Yust Honors

MECHANICAL ENGINEERING

Jeremiah Allen Honors
 Mark Arlinghaus High Honors
 Craig Baudendistel Highest Honors
 Bradley Billheimer Honors
 Ovidio Bocanegra Highest Honors
 Mark Brooks High Honors
 Jason Cain Highest Honors
 Corey Campbell High Honors

John Davis Honors
 Steven Dooley Highest Honors
 Andrew Dwenger High Honors
 Kelly Feirstine Highest Honors
 Andrew Fleming High Honors
 Mary Fowler Honors
 Joseph Fuhr Highest Honors
 Shane Gaerke Highest Honors
 Rachel Gligorich Highest Honors
 Brendhan Goss Highest Honors
 Clyde Ham Honors
 Matthew Hanneman High Honors
 Aaron Huffman Honors
 Justin Hughes Honors
 Scott King Highest Honors
 Jason Kremer Honors
 Craig Laubenthal High Honors
 Jeffrey Laubenthal High Honors
 Jeffrey Lichty High Honors
 Christopher Logan Honors
 Brian Lovewell High Honors
 Mark McIntire High Honors
 Travis Michalak Highest Honors
 Jean Mihigo High Honors
 Eric Miller Honors
 Edward Morris Highest Honors
 Zachary Osborn Honors
 Gregory Palm Highest Honors
 Annemarie Peters Honors
 Aaron Powell High Honors
 Douglas Rahrigh Highest Honors
 Jason Robinson Highest Honors
 Eric Roush Highest Honors
 Stephanie Runyon Highest Honors
 Adrienne Schaab Highest Honors
 Dustin Serres Honors
 Kristen Shiverdecker Honors
 Adam Shook High Honors
 Jonathan Stammen High Honors
 Joshua Szarek High Honors
 Charles Taylor Honors
 Shawn Uhlenhake Highest Honors
 Gregory Updike Highest Honors
 Lindsay Walthall Highest Honors
 Wesley Ward High Honors

PRE-BIOMEDICAL ENGINEERING

Amantha Allen Honors
 Adam Lenger Highest Honors
 Monica Mckitterick Honors

PRE-COMPUTER ENGINEERING

Justin Chevront High Honors
 Craig Halberstadt Honors
 Jordan King High Honors
 Kiron Mateti Highest Honors
 Linda Moore High Honors
 Pride Starnes High Honors

Spring 2002 Dean's List

continued

PRE-COMPUTER SCIENCE

Nathaniel Ayres Highest Honors
Jonathan Ball Highest Honors
Robert Bever High Honors
Tiffany Bevins Highest Honors
Craig Birkemeier Honors
Jeffrey Bissantz Highest Honors
Matthew Hazen Highest Honors
James Knapp High Honors
Ted Langreck High Honors
Brian Mullins Honors
Ryan Mummy High Honors
Stuart Sergeant High Honors
Jeffrey Shinger Highest Honors

PRE-ELECTRICAL ENGINEERING

Jason Blackaby Highest Honors
John Fedon Highest Honors
Anthony Halley Highest Honors
Christopher Kimmet High Honors
Daniel Wells High Honors

PRE-ENGINEERING PHYSICS

Brian Butts Honors
William Ford High Honors

PRE-MECHANICAL ENGINEERING

Andrew Brackman Highest Honors
Bobby Dean High Honors
Randy Tobe Highest Honors

UNIVERSITY COLLEGE

Kevin Bolds High Honors
David Carr Highest Honors
Joshua Cole Honors
Marie Craig High Honors
Anthony Decerbo Highest Honors
Carlos Gutierrez High Honors
Levi Elston High Honors
Jessica Fewlass High Honors
Tiffany Hall High Honors
Nicholas Kitchen Highest Honors
Julie Lee Honors
Lalu Patel High Honors
Richard Rose Highest Honors
Amanda Schultheis Honors
Elizabeth Soper High Honors
Ian White High Honors

Summer 2002 Dean's List

BIOMEDICAL ENGINEERING

Faridal Mutalib High Honors
Rahel R. Rudd High Honors
Michael N. Rueschman Highest Honors

COMPUTER ENGINEERING

Rohit Bhat High Honors
Jason A. Boudi High Honors
Trunali Grissom High Honors
Kenneth R. Selz High Honors
Samuel J. Stone Highest Honors
Kip J. Streithorst Honors

COMPUTER SCIENCE

Nathan W. Bowers Honors
Dustin M. Deweese High Honors
Deacon J. Sweeney Honors

INDUSTRIAL AND SYSTEMS ENGINEERING

Andrea M. Thompson Honors

MECHANICAL ENGINEERING

Zachary J. Osborn Highest Honors
Joshua J. Szarek High Honors

UNIVERSITY COLLEGE

Jerriann M. Doll High Honors
Todd M. Flesch High Honors
Julie J. Lee Highest Honors
Joyce A. Miller High Honors
Vestine Mukanshimiye High Honors

Order of the Engineer Steel Ring Ceremony



The Steel Ring Ceremony for induction into The Order of the Engineer (OOE), will be held on Friday, December 6, 2002, at 7:00 p.m. in Room 144 Russ Engineering Center. If you will be receiving your engineering degree in December 2002 or March 2003, you are cordially invited to participate in the ceremony. There is a one-time membership fee of \$5 and a \$5 charge for the cost of the ring. A

short reception will follow the ceremony. Friends and family are welcome to attend.

Registration for the OOE ceremony is required by November 15th. Registration forms and ring sizes are available in the Office of Conferences and Events in Room 180 of Student Union. For more information or an online registration form, please visit the college homepage at <http://www.cs.wright.edu> and click on *What's New*.

Mark your calendars...

Engineering and Computer Science Co-op Recruiting Day

Thursday, January 23, 2003

1:30 PM - 4:30 PM

Russ Engineering Center Lobby

For more information, contact Career Services at (937) 775-2556.

The **SOCHE Student Research Program** has several positions for undergraduate and graduate students available in the Materials Lab at Wright-Patterson Air Force Base. They offer flexible work schedules, career-related work experience in their state-of-the-art labs, and competitive wages (Sophomore: \$10.80/hr, Junior: \$12.15/hr, Senior: \$13.50/hr, Graduate: \$16.55/hr). Applicants must be degree seeking students in good standing with U.S. citizenship. No experience is necessary. The following positions are currently available at SOCHE:

Project # 36: Nanoscopic Surface Preparation and Sensor Materials Characterization

Majors: Chemistry, Materials Science, Physics

Description: Methods to influence the organization of atoms at the surface an interface of materials will be investigated. Current emphasis is on technological needs in the areas of materials and processing of electronic and optical materials, specifically quantum dot formation. This work may include the deposition of materials, the operation of materials characterization equipment (x-ray, electron and/or ion spectroscopy, AFM, etc.) under the direction of senior engineers to determine the chemistry, morphology and/or structure of the deposited materials, as well as, the design or modification of software on lab automation or data reduction computer systems.

Project # 37: Atomistic and Continuum Modeling of Quantum Dot Structures

Majors: Materials Science, Physics, Electrical Engineering, Computer Science

Description: Perform finite element calculations to determine

the minimum energy shape of quantum dots as a function of dot volume, using commercially available finite element software. Repeat these calculations at the atomic level by performing molecular dynamics calculation using a valence force field (VFF) potential. Develop this molecular dynamics code in MATLAB.

Project # 38: Sample Preparation and Image Acquisition for High Resolution Transmission Electron Microscopy (HRTEM) of Compound Semiconductors

Majors: Materials Science, Physics, Electrical Engineering

Description: Cross-sectional samples of compound semiconductor thin-films will be prepared using standard techniques. HRTEM images will be scanned for later quantitative analysis. This work will be done in conjunction with Dr. Mahalingam (SYSTRAN Corp.) who will be providing the required training. The applicant should be in a materials engineering program or related field. Experience with metallographic techniques and ion milling are desirable.

Project # 44: Novel Materials Studies for Aircraft Coatings

Majors: Chemical Engineering, Materials Science

Description: The work involves hands-on, in-house research of new coating materials for aircraft corrosion protection. The new materials to be investigated included sol-gel based surface treatments, hybrid sol-gel based thermal control coatings, and new aircraft paint systems. The work includes electrochemical and chemical analysis (EIS, SVET, FTIR, Raman, ESR, etc.), surface chemical analysis of coating materials, analysis of the effects of various treatments on aluminum alloys, and a variety of

analytical studies directed to elucidate corrosion protection mechanisms. These surface studies include XPS and Auger analysis of alloy surfaces, analysis of alloy grain boundary chemistry, effects of surface treatments on the alloy grain boundary chemistry, and investigation of corrosion inhibitor mechanisms.

Project #45: Surface Analytical Studies of Aircraft Coatings

Majors: Chemical Engineering, Materials Science

Description: The work involves hands-on, in-house research of metallic corrosion phenomenon and new coating materials. The new materials to be investigated included substrates sol-gel based surface treatments, hybrid sol-gel based thermal control coatings, and a variety of organic paint systems. The work includes surface chemical analyses (XPS, AES) of coating materials, analysis of the effects of various treatments on aluminum alloys, a variety of analytical studies directed to elucidate corrosion protection mechanisms, and chemical analysis (FTIR, Raman, ESR, etc.). These surface studies include chemical analysis of alloy surfaces, analysis of chemistry, and investigation of corrosion inhibitor mechanisms, all aimed at development of high performance corrosion protection systems.

Interested students can get an application via the SOCHE website at:

www.soche.org

Applications must be submitted with a résumé and transcript. For more information, call the SOCHE office at (937) 258-8894.

Brandeberry Named to NSPE Board of Directors



The National Society of Professional Engineers installed professional engineer James E. Brandeberry, Ph.D., to its Board of Directors for 2002-2003. Dr.

Brandeberry took the oath of office on July 13, 2002, at the Society's 2002 Annual Convention & Expo in Orlando, Florida. The 24 directors are charged with setting the direction for the 56,000-member national society, which was founded in 1934 and represents engineering professionals from all disciplines.

Dr. Brandeberry was installed as Vice President of Professional Engineers in Education Practice Division at a black-tie banquet attended by many leaders from the engineering profession. Dr. Brandeberry began serving a one-year term on July 13.

Dr. Brandeberry is currently professor and dean of the College of Engineering and Computer Science at Wright State University. For over 30 years, Dr. Brandeberry has directed his efforts toward building an outstanding program in engineering for the Dayton metropolitan area. He also has an extensive industrial background as an entrepreneur and as a practicing engineer. Dr. Brandeberry received his B.S. and M.S. degrees in electrical engineering from the University of Toledo, and his Ph.D. in electrical engineering from Marquette University. He is a registered Professional Engineer and the author of over 35 technical publications.

NSPE is the national society of engineering professionals from all disciplines that promotes the ethical and competent practice of engineering, advocates licensure, and enhances the image and well-being of its members. Founded in 1934, NSPE serves about 56,000 members and the public through 53 state and territorial societies and more than 500 chapters. For more information on NSPE, please visit www.nspe.org.

Upgrades in CECS Labs



Over the summer the College of Engineering and Computer Science Central Computer Staff were busy upgrading the computer labs in the Russ Engineering Center. Courtesy of the the Student Technology Fee that all College of Engineering and Computer Science students pay, major upgrades were made to the computer labs in the 152 area of the Russ Engineering Center in time for the start of fall quarter 2002. The computers in rooms 152A and 152C were replaced with new equipment. In addition, room 152C was reconfigured to allow more space between rows (the number of PCs remained the same). Twenty-five X-terminals from room 152D were replaced with 25 additional PCs. This takes the number of available open lab PCs from 48 to a total of 73. Room 152A was also expanded and now contains 29 PCs. The cost to achieve these upgrades was approximately \$165,000.

In addition to the lab upgrades in the 152 area of Russ, several of the departmental computer labs were also updated over the summer.

The new computers are from Omnitech and have 2.0GHz processors, 512Mb of memory, Nvidia MX200 video adapter, floppy and CD drives, and a 250Mb Zip drive. The PCs in 152C and 152D have 17" flat CRT monitors and the PCs in 152A have 19" flat CRT monitors. All of the PCs will run the Windows 2000 operating system and have Office XP installed as well as other programs and utilities for student use.

Tau Beta Pi Inducts New Members



On June 2, 2002, Tau Beta Pi, the engineering honor society, inducted 23 new members at their Spring Initiation Banquet. The following students were inducted: Chad Apple, Matthew Casto, Maria Kahle, Andrew Kondrath, Toni Larson, Daniel LeMaster, Michael Maddux, Paul McDowell, Jeremy Nelson, Naina Pothini, Robert Rudolph, Stephanie Runyon, Sameep Singh, Wesley Ward, and Jenna Warman. Four faculty members (Philip Chen, Ping He, James Menart, and Pradeep Misra) were also inducted. In addition, four eminent engineers were initiated into the society. These initiates included Michael Adams, Matthew Diggs, Jr., Daniel Duval, and Rajesh Soin.

Club Fair 2002

presented by the
College of Engineering and
Computer Science

Wednesday, October 23
11:00 AM - 1:00 PM
Russ Center Lobby

Meet with student
representatives from our
College clubs

Check out the club displays

Enjoy refreshments

Register for door prizes

New Faces Join the College of Engineering and Computer Science

The College of Engineering and Computer Science would like to welcome the several new faculty members that have joined us this quarter.

Natsuhiko Futamura
Assistant Professor
Department of Computer Science and Engineering

Dr. Futamura recently completed his Ph.D. in computer and information science at Syracuse University. He received a master's degree in computer and information science from Syracuse University in 1996 and a bachelor's degree in mathematics from Waseda University in Tokyo, Japan in 1992. His research interests include parallel and distributed computing and computational biology. His past research in computational biology includes parallel biological sequence comparison using prefix computations, algorithms for protein accessible surface area computation, parallel suffix array construction and improving BLAST at the National Institutes of Health. This research resulted in several conference and journal papers. He is also currently conducting research with the National Cancer Center in Japan. He has developed two software tools including a parallel sequence comparison software using prefix computations and a parallel suffix array construction software for distributed memory parallel computers.

Praveen Kakumanu
Instructor
Department of Computer Science and Engineering

Mr. Kakumanu recently received a master's degree in computer science from Wright State and a bachelor's degree in computer science and engineering from Nagarjuna University located in India in 1999. His research interests include pattern recognition, neural networks, real-time facial animation, expressive facial animation, speech recognition and audio-visual speech processing. One of his academic projects while completing his bachelor's degree was a face recognition system using neural networks for recognizing a person, given the different facial poses

of a person. This included tasks such as segmentation, edge detection, feature extraction and training by back propagation algorithms. He has also been involved in several conference proceedings dealing with some of the research being conducted.

Juqiang "Jeff" Liu
Assistant Professor
Department of Computer Science and Engineering

Dr. Liu received his Ph.D. and M.S. in computer engineering in 2001 and 1999, respectively from the University of California, Irvine. In 1992, he received a bachelor's degree in computer science from the Beijing University of Aeronautics and Astronautics. While at the University of California, Dr. Liu was a research and teaching assistant. As a research assistant he designed and implemented distributed, real-time middleware, which facilitates the development of applications running on commercial operating systems. Dr. Liu served as a teaching assistant for courses on operating systems, real-time systems, and distributed computing. He has co-authored ten publications and has participated in two presentations for his research.

Ravi Penmetsa
Assistant Professor
Department of Mechanical and Materials Engineering

Dr. Penmetsa received his Ph.D. in engineering from Wright State University in 2001 and a bachelor's degree in mechanical engineering from Andhra University in Andhra Pradesh, India in 1997. While at Wright State, he was a graduate research assistant. He developed efficient certainty quantification techniques that are classified based on the type of input uncertainty available and worked on various finite element models to demonstrate the applicability of developed methods to practical engineering problems. He also assisted in teaching a variety of graduate design classes and trained new graduate students in finite element analysis, optimization and approximation

concepts. He has co-authored three journal articles and participated in nine conference proceedings.

Steven Perretta
Instructor
Department of Computer Science and Engineering

Mr. Perretta recently received his master's degree in computer science from Wright State University and received his bachelor's degree in computer science from the SUNY Institute of Technology at Utica in 1999. While at Wright State he has served as a graduate research assistant for Dr. John Gallagher and helped to design a Java based software suite consisting of a Khepera robot simulator program, a Khepera robot serial port interface program, and various program management tools. He also served as an assistant instructor for CEG 499, a class on autonomous robotics, and also assisted in teaching a digital logic class. Mr. Perretta looks forward to continuing his education by pursuing a doctoral degree at Wright State.

Didem Tureli
Assistant Professor
Department of Electrical Engineering

Mrs. Tureli will be completing her Ph.D. degree this month in electrical engineering at the University of Cincinnati. She received her master's degree in electrical engineering from the University of Surrey in the United Kingdom in 1995 and her bachelor's degree in electrical engineering in 1994 from Bogazici University in Turkey. Her research interests include enabling algorithms for wireless communications, multiple access control protocol design for OFDMA and CDMA, and channel and frequency offset estimators for OFDM systems. She served as a research and teaching assistant at the University of Washington. As a teaching assistant she helped teach courses on wireless communications, embedded systems and Java programming for embedded systems. Mrs. Tureli has co-authored several journal articles and over ten conference papers.

SIAC 2002

The Fourth Annual Summer Institute on Advanced Computation (SIAC) was held at Wright State, August 26-28. This year's Institute focused on visualization, imaging, and modeling. SIAC is funded by the Ohio Supercomputing Center and co-hosted by ITRI and the Department of Computer Science and Engineering. Guest speakers from Academia (University of Utah, Ohio State, Notre Dame, WSU), Industry (Veridian Corporation, Soft-Sight, Honeywell) and Government (AFIT, AFRL) gave presentations. Sixty professors, students and government and industry representatives attended the three-day Institute.

ITRI Faculty-Graduate Student Seminars Offered

ITRI has scheduled the following seminars for fall quarter 2002:

October 17 Mr. Boris Kerkez
Case-based Plan Recognition with
Incomplete Plan Libraries
145 Russ Engineering Center
2:00 PM

November 21 Dr. Anna Esposito
Acoustic Features of Speech and
Emotional Speech
145 Russ Engineering Center
2:00 PM

Everyone is welcome to attend.

ICTAI 2002

November 4-6, 2002 in Washington, DC, ITRI, in collaboration with the IEEE Computer Society, is holding the Fourteenth Annual International Conference on Tools with Artificial Intelligence (ICTAI). Seventy researchers from all over the world will be presenting papers. More information on the Conference can be found at the Computer Society's website at:

www.computer.org/conferences/calendar

Bring up the November 2002 schedule and ICTAI is at the top of the list.

WSU Team Places Third in i-Zone Challenge

After months and months of work and several phases of competition the WSU Paper Technology Team placed third in The i-Zone \$100,000 Business Plan Challenge. The i-Zone is a contest designed to encourage the education, nurturing, and development of entrepreneurial technology-based business in the Dayton region. Approximately 200 emerging/potential businesses, involving over 450 people, were involved in the three-phased i-Zone Challenge.

The WSU team was a group of faculty and graduate students that developed, and proposes bringing to market, a technology initiative that creates a new quality control product for the paper-goods industry. This collaboration of talent developed a product with significant market applications in the pulp and paper industry. The team was

comprised of two faculty members—Raghavan Srinivasan from the Department of Mechanical and Materials Engineering and Kay Wick from the Department of Marketing—and graduate students from both the College of Engineering and Computer Science and the Raj Soin College of Business.

I-Zone announced the three finalists on July 3, 2002 and those three presented their business plans to a panel of industry leaders in entrepreneurial development, finance, and technology on July 10th. After the three presentations were delivered to the judges and the audience on hand at the Engineers Club of Dayton, the WSU team walked away with the honor of being the third place team and took home a prize of \$10,000 for their business plan.

WSU Co-Op Program For Engineering and Computer Science Majors

The co-op program at Wright State allows students to gain career-related work experience prior to graduation that can help in the future. Here are a few more reasons students should co-op:

1. We take care of documenting your co-op experiences for you - on your transcript. This will make documenting these experiences for P.E. licensure much easier.
2. By Ohio law, a co-op is not officially recognized unless the student is enrolled in the University while working. CPE 091 or CPE 092 is the means by which the student maintains enrollment.
3. Gain field-related experience for better marketability after graduation. When hiring college graduates, more than 98% of employers recruit through their co-op program first.
4. For some employers, enrollment in CPE 091 or CPE 092 is a prerequisite to employment since enrollment in such a course fits the legal requirements outlined in Ohio Revised Code Section 4141.01(A)(3)(e)(ii).
5. Students receiving financial aid who are not enrolled in CPE 091 or 092 risk

being required to start repaying their loans.

6. Many students are covered under their parents' car and health insurance policies. Frequently, insurance companies require verification of full-time enrollment. We can only provide this if the student is enrolled in CPE 091 or CPE 092.
 7. Most students find their coursework more interesting after they've had hands-on experience.
 8. Improve technology and people skills in professional environments.
 9. Students graduating with co-op experience typically receive more and better full-time offers for employment.
 10. Earn money!! The average co-op salary for the College of Engineering and Computer Science is \$12.00 per hour.
- For more information on the Co-op Program and its requirements please visit <http://career.wright.edu> or the Office of Career Services in E334 Student Union.

U.S. Air Force Express Scholarships

- Freshmen can receive scholarship money as early as next quarter. Upperclassmen can receive money even sooner.
- You receive money three ways:
 - Up to \$15,000 per year for tuition and fees
 - \$510 per year for textbooks
 - \$250-\$400 each month to spend as you please
 - All money is non-taxable
- Opportunities exist to work on your master's or doctorate degrees with the Air Force paying full tuition
- Qualifications:
 - Be less than 31 years old as of December 31 of the year you will graduate
 - 2.5 cumulative GPA
 - Physically fit
 - Freshman must be Electrical Engineering majors
 - Sophomores must be Mechanical, Computer, or Electrical Engineering majors
 - Juniors and Seniors must be in an ABET-accredited engineering program or else be a Computer Science, Mathematics, Nursing, Chemistry, or Physics major
- Competitive scholarships in other majors are also available

For more information visit www.afrotc.com or www.wright.edu/academics/prog/rotc or contact:

Major Jeremy Martin
118 Millet Hall
(937) 775-4294 or (937) 775-2730
jeremy.martin@wright.edu

Office of the Dean

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

