



BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

September 2003

Wright State University Dayton, Ohio 45435

Vol. 20 No. 1

Important Dates

- November 11
UNIVERSITY CLOSED -
Veteran's Day
- November 15
Last day of Fall Quarter
Classes
- November 17-22
Final Exam Week
- November 21
Order of the Engineer Steel
Ring Ceremony ~ 7:00 PM
- November 22
Fall Commencement
- January 5
First Day of Winter Quarter
Classes
- January 19
UNIVERSITY CLOSED -
Martin Luther King, Jr. Day
- January 22
CECS Co-op Recruiting
Day ~ 1:30 PM
- February 15-21
National Engineers Week
- March 13
Last Day of Winter Quarter
Classes
- March 15-20
Final Exam Week
- March 29
First Day of Spring Quarter
Classes
- May 31
UNIVERSITY CLOSED -
Memorial Day
- June 5
Last Day of Spring Quarter
Classes
- June 7-12
Final Exam Week

College Awards Students and Faculty

Each year the College of Engineering and Computer Sciences honors those students, faculty, and staff who have demonstrated exceptional service and dedication to their field and their scholarly community. On June 13, 2003, the College held its annual ceremony where it awarded the following people for their excellence in teaching, research, service and academics.



Excellence in Research Award Marian Kazimierczuk

Dr. Marian Kazimierczuk is a Professor in the Department of Electrical Engineering. He received his M.S., Ph.D., and Doctorate of Science degrees in Electrical Engineering from the Technical University of Warsaw, Poland. Dr. Kazimierczuk joined the electrical engineering faculty at Wright State in 1985, and has since demonstrated an incredible dedication to serving the professional community and the university.

He has had 102 journal articles and 108 conference papers published. He has supervised 42 master's students and 6 Ph.D. students. In addition to the 8 patents he has received, Dr. Kazimierczuk has received over \$440,000 in research funding. He also serves as a reviewer for over 100 papers, proposals, and books each year.

As a result of such outstanding service in his field, Dr. Kazimierczuk has received many honors. He was seen in BITS & PCs last year when he won the award for Excellence in Professional Service. In 1991 he accepted the IEEE Harrell V. Noble Award for 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 Professional Service Kuldip Rattan

Dr. Rattan is a Professor in the Department of Electrical Engineering. He received a bachelor's degree from Punjab Engineering College in 1969 and then continued at the University of Kentucky where he received both his master's and doctoral degrees, all in electrical engineering. He joined the electrical engineering department in 1979 and since that point he has diligently served the department, the college, the university, and the community. He has served on or chaired every major committee within the department and has served on 26 committees at the college level.

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In addition to the college, he has been involved in numerous committees at the university level including most recently the Faculty Development Committee and the Athletic Council. In addition to the many committees, he also serves as the chief advisor for the Tau Beta Pi engineering honor society. Dr. Rattan has compiled an extraordinary record of service while maintaining an impressive level of teaching and scholarship. He has supervised over 40 master's students and 4 Ph.D. students.

Dr. Rattan spends countless hours organizing and advising student organizations and pouring over reports. His selfless activities and commitment have made him a respected and valued member of the university and the community.



Outstanding Faculty Member Award S. Narayanan

Dr. Narayanan is a Professor and Chair of the Department of Biomedical, Industrial and Human Factors Engineering. He received a bachelor's degree in mechanical engineering from the Regional Institute of Technology in India in 1987. He then went on to receive a master's degree in Industrial Engineering from the University of Alabama, and another master's degree and a Ph.D. in industrial and systems engineering from the Georgia Institute of Technology in 1994. In 1996, he earned the distinction of becoming a licensed professional engineer in the State of Ohio.

Dr. Narayanan's teaching has always received very high feedback from students. He has continuously incorporated new technologies in the classroom and in 2001 he received the Award of Innovative Use of Instructional Technology from the Center for Teaching and Learning at Wright State.

He has established the Interactive Systems Modeling and Simulation Lab

where he has been conducting research in a model-based approach to the design of interactive systems to aid humans in cognitively complex tasks such as planning, decision-making, information seeking and troubleshooting. His research efforts have led to over \$2 million in sponsored research, over 20 articles in various publications and greater student participation in the area of research assistance.

Dr. Narayanan has served on numerous committees at all levels within the university and has initiated an advisory board for programs in the Biomedical and Industrial Engineering Departments.

The Early Career Achievement Award Nathan Klingbeil and Michael Raymer

The Early Career Achievement Award was established this year to recognize excellence in teaching, scholarship and/or service during the first four years of a faculty member's initial appointment. This year the Faculty Development Committee selected two winners for this award.



Nathan Klingbeil is an assistant professor in the Department of Mechanical and Materials Engineering. Dr. Klingbeil received a bachelor's degree from the University of Dayton in mechanical engineering in 1993. He received his master's degree and Ph.D. in mechanical engineering from Carnegie Mellon University in 1995 and 1998.

During the four years that Dr. Klingbeil has been at Wright State, he has had immense enthusiasm and intense dedication to his pupils. His evaluations from students have always been filled with adulations. He has twice been nominated for College's Excellence in Teaching Award and last year he won the award.

In addition to his teaching ability, Dr. Klingbeil has been heavily involved with a variety of committees at the department, college, and university

level. He has written numerous publications, given presentations at 14 conferences, and has been awarded over \$500,000 in research funding. He is also a member of 5 professional societies and a reviewer for 7 professional journals.



Michael Raymer is an assistant professor in the Department of Computer Science and Engineering. Dr. Raymer received a bachelor's degree in computer science from Colorado State University in 1991. He went on to receive a master's degree and Ph.D., both in computer science and engineering, from Michigan State University.

In the 2 1/2 years he has been at Wright State, Dr. Raymer has received over \$2 million in funding. He has focused his research on the new and exciting field of bioinformatics. The first grant he received from the National Science Foundation was awarded in order to establish an undergraduate curriculum and research program in this field. He recently co-authored the first bioinformatics textbook targeted to an undergraduate audience. He has also established an active research lab in which graduate and undergraduate students work together to develop innovative bioinformatics technologies and results.

In addition to his research, Dr. Raymer has helped develop 3 new courses in bioinformatics. He has also directed several master's and doctoral students. His students regard him as an effective and competent teacher, which led to his nominations in 2001 and 2002 for the College's Excellence in Teaching Award for Faculty.

Dr. Raymer is also an active entrepreneur. Aided by a Wright State Technology Commercialization grant, Dr. Raymer, along with Dr. Travis Doom of computer science and engineering and Dr. Dan Krane of biology, co-founded the company Forensic Bioinformatics

Systems. This company provides objective automated review of forensic DNA evidence for criminal cases. The co-founders and their students also developed software to analyze DNA evidence and it is currently pending review for a U.S. patent.

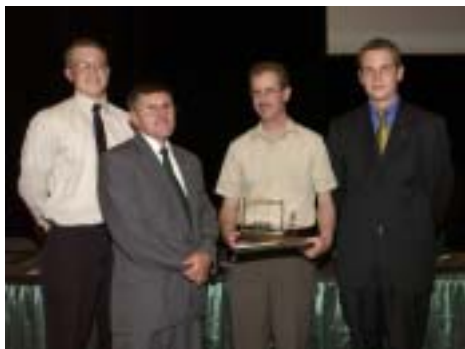


**Outstanding Lecturer Award
Karen Meyer**

Meyer is a Lecturer and the Undergraduate Curriculum Advisor in the Department of Computer Science and Engineering. She received a bachelor's degree in education from the University of Dayton and went on to receive a master's degree from John Hopkins University. She began working at Wright State in 1992 after working for several years as a product development analyst and then the manager of installation, training and support at Advanced Computer Systems.

In addition to her teaching and advising duties, Meyer also coordinates the computer literacy course sequence. These courses serve over 1800 students each year and require a lot of coordination regarding teaching assistant and adjunct faculty staffing for each of the 37 sections. She has also developed 4 new technology courses in advanced office productivity, PC networking I & II, and client server databases to meet the ever-changing technology.

Meyer currently serves on the department's undergraduate petitions committee, the college scholarship committee, and the university information technology committee. She also received the University's Presidential Award for Faculty Excellence for Outstanding Lecturer, which was presented to her at the Wright State Convocation on September 10.



**Excellence in Teaching Award for Faculty
Scott Thomas**

Dr. Thomas is an Associate Professor in the Department of Mechanical and Materials Engineering. He was nominated primarily by his students in ME 315 Thermodynamics I. One of his students stated that he "was fun and exciting to listen to. He makes the subject enjoyable and tries to make it applicable to our everyday lives." Many students said that his thoroughness and clear explanations on difficult material made it a lot easier for them to understand the subject. Another student said that he "is very helpful in and out of class. He is willing to give his time to help us learn. He is energetic in class and is great at answering in-class questions. He encourages asking questions and learning."

Dr. Thomas received his bachelor's degree in mechanical systems engineering in 1986 and his Master's degree in systems engineering in 1989, both from Wright State. In 1993, he received his Ph.D. in mechanical engineering from the University of Dayton and then joined the faculty at Wright State.


While at Wright State, he has received over \$400,000 in research grant funding. He has also been involved with new course developments including ME 199: Introduction to Engineering Design and ME 444/644: Principles of Internal Combustion Engines. He also helped develop the Internal Combustion Engine Test Stand in one of the labs which consists of a 3.1-liter V-6 multi-port fuel-injected engine. The test stand has been designed and assembled completely by senior design students and graduate students and is used in

several classes including Thermodynamics II and Heat Transfer. He has helped students in over 35 undergraduate senior design projects. Dr. Thomas has been nominated by students for his dedication, enthusiasm and effectiveness as a professor.

**Excellence in Teaching Award for Adjunct Faculty
Dennis Hance**

Hance has served as an Adjunct Instructor for the Department of Mechanical and Materials Engineering since 2001. He received his Bachelor of Science in Electrical Systems Engineering from Wright State in 1987 and a master's degree in electrical engineering from the Air Force Institute of Technology in 1994. He was nominated by his students in ME 213 Dynamics. One student said "he makes complex things simple and understandable." Another said that he is amazing and was "really able to connect with everyone and make the class fun to learn."

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 <p>BITS & PCs</p> <p>College of Engineering and Computer Science Wright State University</p>
<p>Dean James E. Brandeberry, Ph.D., P.E.</p> <p>Editor Jenny Garringer</p> <p>Staff Writer Samantha Hundt</p>
<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, literature racks in the Russ Center Atrium, or the Russ Center Study Lounge</p> <p>The next issue of <i>BITS & PCs</i> will be published the week of October 6, 2003. To submit items for this issue, call the College of Engineering and Computer Science at (937) 775-5001, or send email to jgarring@cs.wright.edu by September 22, 2003. The College of Engineering and Computer Science reserves the right to edit all material for publication.</p>



**Excellence in Teaching Award for Teaching Assistants
Sridhar Ramachandran**

Ramachandran is a doctoral student in the computer engineering program. He started working for the university as a lab assistant for CEG 360 in 2001. This course is very lab intensive and both the professor and the students rely on him to quickly develop and test solutions of complex digital systems including the final project, a simple microprocessor.

Ramachandran's experience as a teaching assistant has motivated him to pursue a career in academics. In the fall of 2002 he entered the computer engineering Ph.D. program with the goal of eventually becoming a university professor. His research is in the use of digital hardware to solve problems in bioinformatics.

Ramachandran takes the role of teaching very seriously and with great professionalism. One of the students that nominated him puts it best: "he puts all of his efforts into the student and their understanding of digital design. He encourages students to ask questions and he is pleased to spend time answering them."



**Dean's Award
Cayti Zelnio**

When appropriate the Dean has the pleasure of selecting a student who excels in academics, leadership, and service to the college. Cayti Zelnio has exemplified all three of these characteristics.

Zelnio has provided outstanding service to the college. She 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. She is an outstanding senior student in the biomedical engineering program.

But academic pursuits are only one part of Zelnio's accomplishments at Wright State University. She has been involved with the Honors Program, Student Government, Wright Engineering Council, and community service projects.

She has been a leader in the College's summer Academic Advantage Program, an organizer of events for high school students, and a promoter of college events and activities.

Zelnio is a highly motivated, enthusiastic, and extremely capable individual - the type of student every college desires to lead their student activities and provide support to their recruiting and retention programs.

**Dean's Commendation
Wright State Raider Quadcycle Team
and SAE Aero Design Competition Team**

This year, the Dean decided to recognize two student organizations with a special commendation.



The first recipient of the 2003 Dean's Commendation is the Wright State Raider Quadcycle team. During the first part of May, the eleven-member student team participated in the American Society of Mechanical Engineers' Human Powered Vehicle Competition held at the University of Missouri at Rolla.

During the competition, the quadcycle won a number of awards including:

- 2nd place in the utility vehicle design

event

- 2nd place in the multi-rider vehicle design event
- 2nd place in the multi-rider vehicle endurance event
- 2nd place trophy overall in the utility vehicle event

In addition, the quadcycle was featured on the front page of the Rolla Daily News

This team is made up of motivated students who have used their individual skills and talents as a group to bring honor and recognition to the College and the University.



The second recipient of the 2003 Dean's Commendation is the Wright State mechanical engineering student team that competed in the Society of Automotive Engineers Aero Design Competition.

During the first weekend in May, the Aero Design Competition was held at the Air Force Museum to help celebrate the 100th anniversary of the Wright Brothers first flight. The team competed in two different classes of planes: a regular class, which is limited to a 6-foot wingspan and an open class that is not limited.

The regular class plane, the Orville Raider, finished 14th out of 39 entries, ahead of Ohio State, the University of Dayton, and the University of Cincinnati. The open class plane finished 4th out of 5 entries. The team received high marks considering this was the first time Wright State had entered the competition in the ten years it has existed. This is a great achievement for the students and illustrates the talent, skills and efforts of our engineering students.

**CONGRATULATIONS TO
ALL OF OUR
OUTSTANDING FACULTY
AND STUDENTS!!**

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 while you learn (Sophomore: \$11.25/hr, Junior: \$12.65/hr, Senior: \$14.00/hr, Graduate: \$17.20/hr, Ph.D.: \$20.80/hr).

Applicants must be degree seeking students in good standing with U.S. citizenship. No experience is necessary. 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.

The following positions are currently available at SOCHE:

Project No. 37 - Atomistic and Continuum Modeling of Quantum Dot Structures

Majors: Physics, Electrical Engineering, Materials Science, 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 No. 38 - Sample Preparation and Image Acquisition for High Resolution Transmission Electron Microscopy (HRTEM) of Compound Semiconductors

Majors: Materials Science, Physics, Electrical Engineering, Chemistry

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 No. AFIT 40.1 - AFIT Low Speed Wind Tunnel Control and Flow Verification

Majors: Materials Science, Mechanical Engineering

Description: Control software for the Aeronautics and Astronautics low speed wind tunnel will be developed to computer control the tunnels wind speed, and position the sting balance at desired locations. Data acquisition software will also be developed to acquire balance data, which will include calibration algorithms on the six degrees of freedom balance. A final check out will be performed for wind tunnel mean air speed and wind tunnel turbulence levels. National Instruments lab view will be the software.

Project No. 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.

Faculty Facts

Bourbakis, Nikolaos G. (ITRI)
Secure Knowledge Management
 Wright Brothers Institute, Inc.
 6/2/03-3/15/05.....\$1,300,327

Bourbakis, Nikolaos G. (ITRI)
Garcia, Oscar N. (CSE)
Priorities in Graduate Education
 Ohio Board of Regents
 7/1/01-6/30/03.....\$74,484

Chen, Chien-In Henry (EE)
Emmert, John (EE)
EW Receiver-on-a-Chip (ROC)
 Department of Defense, Air Force, Air
 Force Research Laboratory
 6/16/03-11/30/04.....\$126,810

Cox, Michael T. (CSE)
Natural Language Computer Interfaces
 Lexis-Nexis
 4/1/03-12/31/03.....\$25,000

Gallagher, John C. (CSE)
CAREER: Evolvable Hardware
Neuromorphic Computational Devices
for Sensing and Control
 NSF, Faculty Early Career Development
 (CAREER)
 6/15/03-5/31/04.....\$91,724

Garcia, Oscar N. (CSE)
Priorities in Graduate Education
(Computer Science)
 Ohio Board of Regents
 7/1/01-6/30/03.....\$104,359

Goshtasby, A. Ardeshir (CSE)
Segmentation and Registration of MR
and CT Spine Images
 Kettering Medical Center
 6/16/03-6/15/03.....\$40,000

Grandhi, Ramana (MME)
Nonlinear Analysis of Advanced
Composites in a Thermal/Acoustic
Environment
 Anteon Corporation
 7/17/02-1/10/04.....\$32,419

Grandhi, Ramana (MME)
DAGSI Cost Share: Development of a
Thermo-Mechanically Induced Geometric
Variance Estimator
 Dayton Area Graduate Studies Institute
 (DAGSI)
 7/1/03-6/30/04.....\$30,000

Grandhi, Ramana V. (MME)
Assessment of Non-Traditional
Uncertainty Qualification Methods for
Structural Analysis and Design
 Anteon Corporation
 6/23/03-6/11/04.....\$21,501

Grandhi, Ramana V. (MME)
Development of Thermo-Mechanically
Induced Geometric Variation Estimator
 Ohio State University
 1/1/01-12/31/03.....\$30,000

Grandhi, Ramana V. (MME)
Adaptive Structure-Based on Energy
Design (ASBED)
 Anteon Corporation
 7/26/02-6/17/04.....\$109,001

Grandhi, Ramana V. (MME)
Analytical Certification and
Multidisciplinary Integration
 Dayton Area Graduate Studies Institute
 (DAGSI)
 7/1/01-3/31/04.....\$9,200

Hangartner, Thomas (BIE)
Evaluation of a Novel Treatment for
Osteoarthritis of the Knee
 Procter & Gamble Company
 8/6/99-1/26/05.....\$14,583

Hangartner, Thomas (BIE)
Postmenopausal Evaluation and Risk
Reduction
 Pfizer, Inc.
 1/1/02-12/31/04.....\$22,121

Hill, Raymond (BIE)
Prototyping Study into Quantifying the
Cost of Spatial Disorientation on Air
Force Aerial Operations
 Veridian Engineering
 4/1/03-11/30/03.....\$45,120

Hong, Lang (EE)
Robust Feature-Aided Tracking
 MRLets Technologies, Inc.
 5/1/03-4/20/05.....\$70,000

Hong, Lang (EE)
Multirate Interacting Multiple Model
Fusion
 MRLets Technologies, Inc.
 7/1/02-12/31/04.....\$35,000

Hong, Lang (EE)
Interferometric Radar Clutter
Suppression
 Dayton Area Graduate Studies Institute
 (DAGSI)
 6/16/03-11/30/04.....\$4,435

Hong, Lang (EE)
Distributed Multirate Multiple Model
Filtering with Out-of-Sequence Data
 MRLets Technologies, Inc.
 4/1/02-6/30/04.....\$50,000

Kazmierczuk, Marian K. (EE)
Developing Effective Strategies and
Performance Metrics for Automatic
Target Recognition
 University of South Alabama
 10/1/01-12/31/03.....\$15,690

Lieh, Junghsen (MME)
Advanced Control System for
Manufacturing Processes – Phase IV:
Precision Machining Process
Development and Optimization
 Delphi Chassis Systems
 6/30/03-6/30/04.....\$66,000

Mawasha, P. Ruby (ECS)
Rowley, Blair (BIE)
Wolff, J. Mitch (MME)
Wright Satellite, Teaching, Academic,
Technology, and Educational (STATE)
Program
 Ohio Space Grant Consortium
 5/22/03-5/21/04.....\$8,850

Menart, James A. (MME)
Computer Modeling of the Discharge
Chamber of an Ion Engine
 National Aeronautics and Space
 Administration
 4/2/03-4/2/04.....\$49,918

Menart, James A. (MME)
Study of the Effects of Magnetic Fields
on the Flow Field in a Mach 5 Wind Tunnel
 Veridian Engineering
 6/16/03-9/30/03.....\$5,363

Mukhopadhyay, Sharmila M. (MME)
Characterization of Thin Film Surfaces
Using XPS
 Procter & Gamble Company
 6/1/03-5/31/05.....\$86,000

Narayanan, Sundaram (BIE)
Personal Knowledge Base
 Lexis-Nexis
 5/1/03-12/31/03.....\$30,000

Shang, Joseph (MME)
Modeling Electromagnetic-Gasdynamic
Actuation
 Veridian Engineering
 3/31/03-9/30/03.....\$20,000

Siferd, Raymond (EE)
High Speed/Resolution Delta Sigma
Analog-to-Digital Converters
 Systran Federal Corporation
 5/9/01-9/8/03.....\$29,989

Siferd, Raymond E. (EE)
Broadband High Resolution Bandpass
Delta Sigma Analog to Digital Converter
 Systran Federal Corporation
 4/18/03-4/17/04.....\$149,995

Faculty Facts

Slater, Joseph C. (MME)
Quantifying Uncertainty in Structural Response
 Anteon Corporation
 10/22/02-11/22/04.....\$4,858

Slater, Joseph C. (MME)
Validation and Enhancements to Wildcat-POD
 Universal Technology Corporation
 6/15/03-12/31/03.....\$12,870

Slater, Joseph C. (MME)
Semi-Active Vibration Control of Fan Blades – Phase 2
 Universal Technology Corporation
 6/2/03-12/31/03.....\$15,867

Slater, Joseph C. (MME)
Wolff, J. Mitch (MME)
Collaborative Research: Parallel Reduced Order Modeling with In-Situ Error Correction and Performance Optimization
 NSF, Grants for Scientific Research
 7/15/03-6/30/04.....\$25,740

Srinivasan, Raghavan (MME)
Narayanan, S. (BIE)
Development of a "Comfort Index" for Garment Tags and Labels
 Paxar Corporation
 4/1/03-3/31/04.....\$41,165

Wolff, J. Mitch (MME)
Flow Physics of Incomplete Combustion Products Interaction with Film Cooling Air in High Pressure Turbine Stages
 Dayton Area Graduate Studies Institute (DAGSI)
 7/2/01-6/30/03.....\$6,500

Wolff, J. Mitch (MME)
Precision Design
 Department of Defense, Air Force, Air Force Research Laboratory
 1/12/99-12/31/04.....\$60,000

Professor Awarded for Innovation in Teaching

Associate Professor, Dr. Scott Thomas received several honors this past spring. In addition to receiving the Faculty Excellence in Teaching Award, he was also the sole departmental recipient of the 2003 Award for Faculty Excellence and Innovation, sponsored by Southwestern Ohio Council for Higher Education (SOCHE).

Dr. Thomas received the award at the May 1 "Innovations in Teaching Excellence" Seminar. He was nominated by Dean Brandeberry and selected by the Advisory Council for Teaching and Learning for his reputation as an outstanding teacher and his instrumental role in the development of curriculum, lab facilities, and distance learning.

Since he began a Wright State in 1993, Dr. Thomas has helped to form and run many classes, including ME 199, which helps freshmen students to get a solid start in the field of Engineering. He has also made important developments in the lab, such as the internal combustion engine test stand. This allows for the analysis of fuel consumption and efficiency in automotive engines.

Dr. Thomas's students back up his reputation with positive remarks. "You can tell he cares and is passionate about this class," one student said. Another student commented that he "was very personable and made me feel like he would help me throughout my education at Wright State."

Changes for Fundamentals of Engineering (FE) Exam

There are new testing rules for the Fundamentals of Engineering (FE) exam, effective with the April 2004 test date. The FE exam for students will no longer be given at universities in Ohio. The exam will be given by the National Council of Examiners for Engineering and Surveying (NCEES) in Cincinnati, Columbus, and Cleveland. Exact locations within these cities are not known at this time. Students will be able to choose one of these three exam locations.

In addition, the cost has increased and the application process has changed. Students will initially submit their

application with the Dean's Letter and the \$25.00 application fee to the State Board in Columbus. After approval by the State Board, students will then pay an additional \$140.00 to NCEES to be registered to take the exam at one of the three testing locations.

The application deadline for the April 17 FE exam is January 17, 2004.

For more information visit the Ohio State Board website at www.ohiopeps.org or the NCEES web site at www.ncees.org. You may also talk with Dick Rathbun in the Dean's Office (405 Russ) for additional information.

RC Posting Guidelines

- 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, & 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 & 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, 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 in the Russ Center.
- Do not move chairs, tables, overheads, etc. from one classroom to another.

Get a Free Graduate Education at AFIT

The Air Force can send you to graduate school as your regular job and pay for it.

To begin, apply for the Officer Training School (OTS). This fast-paced school is located at Maxwell Air Force Base in Alabama. If you are selected, you will be challenged at every turn. Your studies will include classes in professional knowledge, leadership and management, defense studies, and communication skills. You will take part in organized sports and physical conditioning to develop your confidence and teamwork abilities.

To be eligible for OTS you must be a U.S. citizen, 18-34 years of age, and meet certain physical requirements. You must have excellent moral character and score competitively on the Air Force Officer Qualifying test. In addition, you must be a graduate of an accredited college or university. You may apply for OTS if you are within 365 days of graduation.

For more information, contact:

Douglas Fields
Officer Accessions
2940 Presidential Drive, Suite 160
Fairborn, OH 45324
(937) 427-3158
E-mail: douglas.fields@rs.af.mil

AFIT offers MS degrees in the following areas:

- Acquisition management
- Engineering physics*
- Aeronautical engineering*
- Information resource management
- Applied mathematics*
- Logistics management
- Applied physics*
- Materials science and engineering*
- Astronautical engineering*
- Meteorology
- Computer engineering*
- Nuclear engineering*
- Computer systems*
- Operational analysis
- Electrical engineering*
- Operations research*
- Electro-optics*
- Systems engineering*
- Engineering and environmental management
- Space operations

* AFIT offers the doctor of philosophy degree in this area

AFIT is just one of the several competitive educational programs the Air Force has to offer.

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Office of the Dean

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

