

# engineers

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## College of Engineering March 2001

### Awards and Honors

Dr. Donn Hancher, civil engineering, and Dr. Jurek Jaromczyk, computer science, have been selected as recipients of the UK Alumni Association's Great Teacher Award for 2001. Both were honored at an awards luncheon held on February 28. The Great Teacher Award was established in 1961 by the UK National Alumni Association to honor teaching excellence at the University. The award is unusual in that students or a student organization, rather than colleagues or administrators, nominate faculty for the award.



Dr. Donn Hancher, civil engineering, Dean Tom Lester,  
and Dr. Jurek Jaromczyk, computer science, at the  
Great Teacher Awards Luncheon.

Since the Great Teacher Award was initiated 40 years ago, the College of Engineering has the distinction of having the most Great Teacher recipients of any college at the University of Kentucky. Past recipients and the year they were honored are as follows:

Staley Adams, Civil Engineering, 1962  
D. B. Bhattacharyya, Chemical Engineering, 1984, 1996  
Vincent P. Drnevich, Civil Engineering, 1980  
Issam E. Harik, Civil Engineering, 1995  
John W. Hutchinson, Civil Engineering, 1978  
David T. Kao, Civil Engineering, 1976  
William F. Maloney, Civil Engineering, 2000  
Clayton R. Paul, Electrical Engineering, 1997  
Earl L. Steele, Electrical Engineering, 1975  
Lee T. Todd, Jr. Electrical Engineering, 1982  
Bruce L. Walcott, Electrical Engineering, 1995  
John N. Walker, Agricultural Engineering, 1974  
Don J. Wood, Civil Engineering, 1971

Drs. Devadas Panjala, Naresh Shah, Gerald Huffman, CFFLS, have received notification that their paper "Hydrogen production by non-oxidative catalytic decomposition of methane" (to be presented at the 221st American Chemical Society national meeting in San Diego, California, April 1-5) has been selected for consideration for the R. A. Glenn Award, for best Fuel Chemistry Division symposia paper.

### Journal Publications

Dr. Stephen Gedney, electrical engineering, is the author of the paper "Convolutional PML (CPML): An Efficient FDTD Implementation of the CFS-PML for Arbitrary Media," (with J. A. Roden), in Microwave and Optical Technology Letters, vol. 27, No. 5, December 5, 2000. He is also the author of "High-Order Nyström Solution of the Volume EFIE for TE-Wave Scattering," (with G. Liu), in Electromagnetics, vol. 21, pp. 1-14, January-February 2001.



Dr. Judy Goldsmith and Christopher Lusena, computer science, are the authors of the article "Nonapproximability results for Markov decision processes," (with Martin Mundhenk), which will appear soon in the electronic journal, Journal of Artificial Intelligence Research. Chris is a PhD student in Computer Science.

Bob Gregory, CRMS, has received notification that his article "Going Lean at Dana," originally printed in Quality Digest has been reprinted in The Quality Yearbook, 2001 Edition (McGraw-Hill), edited by James W. Cortada and James A. Woods.

### Presentations

Dr. Ibrahim Jawahir, mechanical engineering and CRMS, attended the CIRP International Workshop on Friction and Flow Stress in Cutting & Forming in Paris, France, January 25-26, 2001. There, he gave two presentations, "Report on the technical program of the 4th CIRP International Workshop on Modeling of Machining operations to be held in Delft, Netherlands in August, 2001" and "Report on the organizational activities of the 5th CIRP International Workshop on Modeling of Machining Operations to be held at Purdue University, West Lafayette, Indiana in May, 2002."

## Research Funding



Dr. Zhi Chen, electrical engineering, is the recipient of a Faculty Early Career Development Award from the National Science Foundation. His proposal is entitled "Fundamental Reliability Physics of MOS Devices Based on Deuterium Isotope Effects" and is for the period March 1, 2001 through February 28, 2006. Total funding received is \$374,879.

Drs. Stephen Gedney and Cai Cheng Lu, electrical engineering, received a \$304,000 award from DARPA for the Virtual Electromagnetic Testrange - Wide Band CEM Techniques Program for their proposal, Advanced Electromagnetic Modeling.

Dr. Keith Whites, electrical engineering, has received funding for his proposal, "Electromagnetic Control of Lightweight Solar

Sails (NASA STTR)," Energy Science Laboratories, Inc., San Diego, CA. (NASA STTR subcontract from "Carbon Sails for Gossamer Spacecraft Attitude Control," Dr. Timothy R. Knowles, PI.). The project was funded for the period 12/01/00-9/30/01 in the amount of \$39,691.

## Miscellaneous

The Department of Computer Science held its Second UK High School

Programming Contest on February 17 at the William T. Young Library. Four teams consisting of three students each from area high schools competed. The teams were required to solve programming problems posed to them. The event, sponsored by Computer Science Industrial Partners Lexmark, IBM, was organized with the help of the UK student chapter of Association of Computing Machinery and Upsilon Pi Epsilon, international honor society for computing sciences. A team from Lexington's Paul Laurence Dunbar won the first place in the contest and received a printer from Lexmark as well as other prizes. Second place went to a second team from Dunbar, with third and fourth place going to teams from Henry Clay High School. Dr. Jurek Jaromczyk was the faculty organizer of the event.

David McDuffee, Tonia Hale, Rod Heard, and Thomas Scott Davis, CRMS provided Lean Manufacturing public simulations and facilitator training for W.C.C.T., in Wroclaw, Poland, January 13-22.

## Events

The Engineering Hall of Distinction ceremony will be held Friday, April 20, at 2:30 pm in the auditorium of the William T. Young Library. This year's recipients include:

James R. Boyd	BSEE '69
James B. Day	BSME '62, MSME '69
Earnest O. Robbins II	BSCE '69

William R. Sims  
James L. Wyatt

BSCE '58  
BSMET '46, MSMET '47

Thank You!

Thanks to everyone who volunteered their time to make Engineers Day Open House 2001 a huge success. Each year EDay gets bigger and better. This year's event featured more contests, exhibitors, demonstrations than before. This year's crowd favorite had to have been East Kentucky Power Company's Environmental Education Program featuring Reptiles and Amphibians of Kentucky. Special thanks are extended to Dr. Donn Hancher and the EDay Committee for their many hours of work in organizing this tremendous event for the College.