



Jamali

ENGINEERING NEWS

JUL 23 1984

JUNE, JULY, AUGUST 1984

FACULTY/STAFF/AWARDS/CHANGES

Dr. James Daschbach, professor of industrial engineering, has joined the UT faculty as chairman of industrial engineering on June 23, 1984. He is from the University of Notre Dame where he served from 1966 to 1984, progressing from the rank of assistant professor to full professor in the department of aerospace and mechanical engineering. From 1964 to 1966, he was an instructor/student in graduate school at Oklahoma State University where he received his Ph.D. in industrial engineering. He holds a MBA in industrial management from Southern Methodist University (1961) and a BS in aeronautical engineering from Notre Dame (1954). A retired lieutenant colonel in the USAF Reserve, he worked as service engineer for the Aero Commander Division of Rockwell International Corp. (1960-1964) and for Convair, Fort Worth, Texas on the B-58 project. Dr. Daschbach served one year (1979-80) as a visiting professor at the National Defense University, Fort McNair, Washington, D.C. His research activities include more than 30 published articles on hospital management, industrial safety, management and motivation, and courts and judicial functions. He also has participated in and directed numerous conferences on industrial safety and hospital management. He has served as regional president and national board director for Big Brothers of American (1977, 1979) and is active in the Toastmasters Club, Boy Scouts and other political and civic organizations. We welcome Dr. Daschbach, his wife Jeanette and family to Toledo.

Dr. Mohsin M. Jamali, assistant professor of electrical engineering, joins the UT faculty beginning September 15, 1984. He replaces Dr. Kuvvali Kumar who resigned at the end of the 1983-84 academic year. Dr. Jamali is expected to receive his Ph.D. during the summer at the University of Windsor. His study is in the area of computer architecture for signal processors using data flow--distributed, parallel and pipeline processing techniques. He received a MSEE (1979) at the University of Saskatchewan and a BSEE (1975) at Aligarh Muslim University, India. While at the University of Windsor he has taught courses on data communication and local area networks, Fortran programming and developed a lab in the area of computer communication. He has worked for Advanced Business Computer Systems, Inc. at Windsor. He was awarded a merit scholarship (1971-72); a scholarship from Saskatchewan Power Corporation (1978); a post graduate scholarship (1980-83) at the University of Windsor. He is a member of IEEE and the Association of the Profession Engineers, Province of Ontario. He is a co-author of five conference papers. We welcome Dr. Jamali to Toledo.

Dr. Haresh G. Rao has joined the faculty as a visiting research assistant professor in the department of civil engineering. He is assisting Dr. Ashok Kumar on funded research projects. Dr. Rao arrived May 14, 1984. He received a Ph.D. from Northwestern University, Evanston Illinois. He was an assistant professor (1981-83) at Old Dominion University at Norfolk, Va. He is a member of ASCE, Water Pollution Control Federation, American Water Works Association and the Air Pollution Controls Association. Dr. Rao earned his bachelor's & master's degrees in India. He moved to the United States in 1977 and has obtained permanent residency. He also taught courses on environmental engineering at the University of Miami. We welcome Dr. Rao to Toledo.

IN MEMORY

- 1915-1984 PROFESSOR EMERITUS EDWIN L. SAXER - former chairman of the department of civil engineering for 26 years. He joined the UT faculty in 1946 and retired in 1977. Professor Saxer also served many years on the University Athletic Board of Control and served twice as president of the Mid-American Conference. He was recipient of many professional awards for his research in concrete and construction and received an Outstanding Teacher Award in 1969 - an example of the admiration of his students and peers. The rank of professor emeritus was awarded to him by the Board of Trustees at the June 1977 commencement. Professor Saxer and his wife Martha retired to Florida. The College is receiving funds from friends and relatives toward a Saxer Memorial Scholarship
- 1927-1984 PROFESSOR THADDEUS M. GLEN - professor of industrial engineering. Dr. Glen joined the faculty in 1960 as an assistant professor. He taught many classes in management, productivity, human factors and systems over the years. He served as department chairman for approximately three years, resigning February 20, 1984. He received the honor of being elected a Fellow of AIIE (1980) and was elected vice president of the Institute of Industrial Engineers (March 1984). Dr. Glen was noted for his work with Asian and South American countries in productivity improvement.

Dr. Demetrios Raftopoulos (ME) was honored with the PLATO Award for outstanding contribution in the field of biomechanical engineering and continuous service to his country and fellow man by the Ahepa. This award was presented at the 56th convention of District 11, on June 23 at Sheraton Westgate. Mayor Donna Owens was also an honored guest.

Dr. Keyteck Oh (IE) was elected president of the senior chapter of the Institute of Industrial Engineers for 1984-85.

Dr. Gerald Jakubowski (ME) was elected chairman of the Faculty Senate for 1984-85. He was also selected to continue as treasurer of the North Central Section of ASEE and ASEE Campus representative.

Ms. Betty Wardlaw (ChE) received a bachelor of arts degree at the June 16 Commencement. *Congratulations!*

Dr. David C. Colony (CE) served on the National Research Council panel for recommendations of awards for 1984.

Dr. Colby V. Ardis (CE) has been elected as the new Vice Program Chairman of the civil engineering division of ASEE (1984-85).

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Dr. Phillip White (ME) will serve as director of the CAD/CAM Laboratory (located at the Oakwood Center). Renovations are still in progress.

RESEARCH AWARDS/GIFTS/DONATIONS

Dr. Steven N. Kramer (ME) was awarded a \$20,976 research grant for the study of "Design of an Automated Part Transfer System," by Midland Ross Corporation (June 1984).

A \$4,000 fellowship grant was provided for Patrick de Carla-Souza (CE graduate student) for two years covering fees, books supplies, etc. by the Department of Transportation, Federal Highway Administration. Dr. J. D. Gupta (CE) was instrumental in securing this fellowship from DOT. (July 1984)

Dr. Steven N. Kramer (ME) has contributed \$1,500 to the Dr. Rubin H. Kramer Mechanical Engineering Award. A \$100 award plus name added to a plaque will be presented in recognition of outstanding leadership qualities and scholarship achievement by a student in mechanical engineering. The first award will be made in 1985.

Prestolite Co., Division of Allied Corporation, has given two \$2,000 scholarships to electrical and mechanical engineering. Selection of recipients will be based on financial need, capacity, ability and potential in the field of the award, interests and leadership qualities.

A donation of two reflex type speakers enclosures mounted with coaxial speakers mounted inside (value \$300) was presented to the electrical engineering department by Daniel T. Sweeny.

A \$10,000 research grant was awarded to Dr. Steven Kramer (ME) for an extension of his study on "Selective Precision of Synthesis Method to the Design and Optimization of Machines and Mechanisms." (June 1984)

PAPERS/PUBLICATIONS/PRESENTATIONS

The following are papers presented at the Ohio Academy of Science Meeting held in Columbus, Ohio April 28 and not previously reported.

"A Emergency Response System for Atmospheric Release"
By Suzanne T. Thomas (CE-Research Scientist)

"Programming Tasks and Environmental Preference"
by Laura M. Leventhal (CSE Instructor)

Dr. Gerald R. Frederick (CE) attended the DOE/NASA Workshop on large horizontal axis wind turbine technology. He presented a paper entitled, "Dynamic Stall Effects on a 38-Meter Wind Turbine." The workshop was held May 7-9, in Cleveland.

Dr. Duen-Ren Jeng (ME) attended also the DOE/NASA Workshop on horizontal axis wind turbine technology. He was accompanied by Antoine Kmeid (ME grad student).

Dr. Adel Ghandakly (EE) presented the following papers at the International Association of Science and Technology for Development (IASTED) 10th International Applied Simulation and Modelling Conference.

"On-Line Identification of a Power Generating Unit Stabilizer Loop Using Educated Order Models"
and
"An On-Line Adaptive Control Technique for Generating Units Stabilizer Loops."

The conference was held June 4-6, in San Francisco.

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The following faculty presented papers at the Midwest Symposium on Circuits and Systems held June 10-13 at the University of West Virginia, Morgantown.

Dr. Subhash Kwatra (EE) - "Frequency Modulated Communications Channel Simulation and Systems Studies"

Dr. James B. Farison (EE) & Zhi-Ming Bao (former - visiting scholar) "Minimum Bandwidth Pulse Design by Pontriagin Maximum Principle and Comparison of Several Common Pulse Waveforms."

Dr. James B. Farison (EE) & Domingo Uy (EE doctoral student) "Selective Eigenstructure Assignment in Linear Multivariable Systems."

Dr. Art Thorbjornsen (EE) "A Method For the Statistical Simulation of GaAs MESFETs."

While called "Midwest" the Symposium is quite international with large numbers of papers from all over the world (it was held in Mexico last year). Dr. Thorbjornsen chaired a session and participated in the symposium steering committee.

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Dr. Mark Pickett (CE) presented a paper, "Response Sensitivity of Piping Systems To Large Lock-up Velocities in Hydraulic Snubbers," at the Pressure Vessel and Piping Division annual conference (ASME) held June 17-24, in San Antonio, Texas. He participated also in committee meetings.

Drs. Theo Keith, Colby Ardis, Gerald Jakubowski, James Daschbach attended the annual ASEE Conference including department chairmen and division meetings. The conference was held at Salt Lake City, Utah on June 22-26. Drs. Keith, Ardis, & Jakubowski made presentations at the sessions.

Dr. Ben Koo (CE) will present a paper, "Analysis of Compression Members in Spatial Roof Structures," at the Third International Conference on Space Structures. The conference will be held September 10-15, 1984 at Guildford, England.

News items welcomed -
Submit to E. J. Hughes, Editor

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COURSES/CONFERENCES -

Dr. Kenneth Wolfe (IE) attended a course on simulation held June 4-6, at Purdue University, West Lafayette, Indiana.

Dr. Subhash Kwatra (EE), Charles Meader and Joe Bagamery (EE grad students) attended an Advance Course on Satellite Communications given June 25-28, at NASA, Cleveland (expenses covered by grant funds).

Dr. Donald J. Ewing (CSE) attended a course on IRMX86 operating system by Intel, from June 17-29, at Rolling Meadows, Ill. Tuition fees of \$2,000 were waived for university faculty by Intel.

Dr. Phillip White (ME) and Dr. Roger McNichols (IE) attended a course at GE CALMA on computer graphics, held June 18-22, in Southfield, Michigan.

Sigismund O. Dabiri (BET) completed a course on material handling sponsored by the Material Handling Institute, on June 11-15, at Kalamazoo, Michigan.

The following faculty are completing courses at the Faculty Advancement Program held at the University of Michigan:

Dr. Jiwan Gupta (CE) and Dr. Keytack Oh (IE) "The Personal Computer: Capabilities and Applications," June 11-15, 1984

Dr. Robert Terry (IE) "Using the ADA Programming Language," June 11-15 and "Robotics: Concepts, Theory and Applications," July 30-August 3.

Dr. Frank Kollarits (EE) "Infrared Technology Fundamentals & System Application," June 18-22.

Dr. Demetrios Raftopoulos (ME) "Finite Elements In Mechanical & Structural Design B: Dynamic & Nonlinear Analysis," July 23-27.

Drs. Milton Netter & James Daschbach (IE) along with Dr. Ted Glen attended the National Conference of the Institute of Industrial Engineers held May 9-11, in Chicago, Illinois. This also included the Council for IE Department Chairmen meeting. (This was not included in May's Issue of Engineering News)

Professor George Heath (ME) traveled to Seattle, Washington to attend the ASME annual summer conference which included committee work at the Member Interests and Development meeting (June 11-15).

Dean Leslie E. Lahti, Dr. Phillip White (ME) and Dr. Roger McNichols (IE) will attend the CAEDM (CAD/CAM) conference to be held August 7-10, at Lehigh University, Bethlehem, Pa.

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Dr. James Farison (EE), Dean Les Lahti and Dr. K.C. Fu (CE) are serving on University review committees for APAC. Dr. Fu recently completed the remaining term on the University Committee on Academic Personnel (UCAP) vacated by Dr. Milton Netter (who served as IE acting chairman). Dr. Arthur Thorbjornsen (EE) will serve on UCAP for the 1984-85 academic year.

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- At the end of Spring Quarter, an election was held for new members of the College of Engineering Advisory Committee (CEAC-salaries, promotions, tenure & sabbaticals). The committee is listed below (with term expiring dates):

Dr. James W. Lacksonen (Chemical) Term expiring Spring 1985
Dr. Gerald R. Frederick (Civil) Term expiring Spring 1986 (Chairman)
Dr. James B. Farison (Electrical) Term expiring Spring 1986
Dr. Roger J. McNichols (Industrial) Term expiring Spring 1987
Dr. Steven N. Kramer (Mechanical) Term expiring Spring 1987

- The balloting for a Representative to Graduate Council was not completed. The nominating ballot produced two possibilities so the final ballot will be distributed at the beginning of fall quarter.
- Information relating to travel request forms: If you are traveling on University time but expenses are to be paid by others and you are submitting the form for insurance protection, it is necessary for you to enter purpose of trip and estimated expenses and documentation of the conference to be attended. It is no longer adequate to only state: "For Insurance Purposes Only." Another item regarding travel expense vouchers: each meal must be listed separately.

<u>1983-84 Degrees Granted</u>		
<u>BS</u>	<u>MS</u>	<u>Ph.D.</u>
ChE - 25	ChE - 1	ES - 7
CE - 57	CE - 8	
CSE - 29	EE - 7	
EE - 78	ES - 10	
EPh - 3	IE - 7	
IE - 25	ME - 7	
ME - 65	<u>40</u>	
BET - 81		
<u>363</u>		
	Totals = 410	

- Honorable mention must be given to Mechanical Engineering for their attractive and interesting bulletin boards maintained throughout the year.
- The SOAR program (new freshmen & transfers) held in July, registered over 450 engineering students. Those involved in the program from the College were Dean Ernest Weaver, Dean Leslie Lahti, Peggy Myers, Dean James Machen, Sherry Masar, Carol Simpson, plus Richard Kujawski, Joe Elmers and John Strunc.
- August Commencement-August 25-3:00 P.M.-Continuing Education
 Guest Speaker: Mr. Wendell Johnson, President of Toledo Edison.