

# IMPACT

Kansas State University College of Engineering

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Fall 1993

## Nine join engineering faculty

Nine new faculty members joined the college of engineering for the fall 1993 semester, accepting positions in five departments.

*Architectural Engineering & Construction Science* David R. Fritchen, assistant professor, comes to K-State from Pittsburg State University where he was an assistant professor of



David R. Fritchen

■ **continued on page 2**

## Enrollment at 3,110 for fall

Undergraduate and graduate student enrollment numbers were up for the fall 1993 semester.

Undergraduate numbers totalled 2,649, an increase of 167 over fall 1992 figures. Graduate student enrollment came to 461.

While all classes saw an increase over 1992, the incoming freshman class showed the biggest increase, with 83 more students.

The above figures include students enrolled in the Department of Computer and Information Science.

Only seniors in engineering technology were included. The program is being transferred to KSU-Salina.

## Two departments and one center get new chiefs

Two departments and a major research center in the college came under new leadership this fall.

Bradley A. Kramer stepped up to head industrial engineering during the summer, and Byron W. Jones moved over from the Institute of Environmental Research (IER) in Seaton Hall to head mechanical engineering. Mohammad H. Hosni moved from mechanical engineering to fill the position Jones left at IER.

Kramer earned all three of his degrees at KSU, finishing his doctorate in 1985. He has been a professor in the department of industrial engineering since 1985. While earning his doctorate, he taught in the IE department and worked as a computer consultant for Smith Audio-Visual in Topeka. He succeeds Michael Harnett who returned to teaching duties within the department.



Bradley Kramer

Jones earned his bachelor's degree at K-State and his master's and doctoral degrees at Oklahoma State, finishing in 1975. He has worked as a postdoctoral fellow for the National Science Foundation, and been a systems analyst at the Montana Energy and MHD Research and Development Institute. He has taught in the department of mechanical en-

gineering at Kansas State University since 1977 and directed IER since 1986. He succeeds Donald Fenton who served as the interim department head during the 1992-1993 school year.

Hosni earned his B.S. from Southern University in 1981, his master's degree from Louisiana State University in 1984 and his doctorate from Mississippi State University in 1989. He has been a consultant in Baton Rouge, La., and a research assistant at Mississippi State University. He taught at Southern University and Mississippi State before coming to K-State in 1990.



Byron Jones



Mohammad Hosni

"Professors Jones and Kramer should make outstanding departments heads," said Dean Don Rathbone. "We were indeed fortunate to have them on our faculty and to have them accept these positions."

"Professor Hosni was also an excellent choice to be our new director of IER. I'm very optimistic about the future leadership of the college."



# Nine profs join college of engineering faculty

■ continued from page 1

construction engineering technology. He holds an M.S. in CE from the Univ. of Washington.

*Civil Engineering* One of two new assistant professors in CE is Rao S. Govindaraju who earned his Ph.D. in CE from the Univ. of California, Davis, and comes to KSU from that institution where he was a research associate. Also joining CE is Yacoub Najjar, formerly as-



Rao S. Govindaraju



Yacoub Najjar

sistant professor in the George Washington University Department of Civil, Mechanical and Environmental Engineering. His Ph.D. is in CE-geotechnical area, from the Univ. of Oklahoma.

*Computing & Information Sciences* Holding a Ph.D. in computer science from the University of Edinburgh, Allen Stoughton, associate professor, was formerly a lecturer in computer science at the Univ. of Sussex.

*Industrial Engineering* Yuan-Shin Lee, assistant professor, earned his Ph.D. in IE from Purdue Univ., where he has also most recently been a research assistant. Jerome P. Lavelle, assistant professor, holds a Ph.D. in IE from



Allen Stoughton



Yuan-Shin Lee



Jerome P. Lavelle

North Carolina State Univ., where he has been an instructor in the engineering field. John Wu, assistant professor, earned a Ph.D. in industrial and management systems engineering from Pennsylvania State Univ., where he has been a research assistant.

*Mechanical Engineering* Steven J. Eckels, assistant professor, holds a Ph.D. in ME, from Iowa State Univ., where he has been a research assistant for the past three years. Peter J. Gorder, asst. professor, has a Ph.D. in ME from the Univ. of California, Davis. He has been a research assistant there since 1989.



John Wu



Steven J. Eckels



Peter J. Gorder

## Ghartey-Tagoe wins Dow award

Esi Ghartey-Tagoe, junior in ChE, is the recipient of the 1993 Dow Chemical Premier Scholarship.

The award consists of a \$3,000 renewable scholarship and summer employment with Dow Chemical at Freeport, Texas. Premier scholars are selected for scholastic performance, school and community involvement and high proficiency on standardized college entrance exams.

Students must maintain a 2.7 grade point average while enrolled in a minimum of 12 hours per semester. In addition, the student must accept work offers for at least two summers, including the summer before graduation.

Ghartey-Tagoe has served as recording secretary of the National Society of Black Engineers and is a member of the American Institute of Chemical Engineers and the Society of Women Engineers. She is the ninth K-State chemical engineering junior to receive this award in the last 10 years.

## Stokes wins two awards

Kevin Stokes, junior in ChE, is the recipient of the 1993 Dow Outstanding Junior Award and the 1992-93 Scholastic Achievement Award of the American Institute of Chemical Engineers.

The Dow award consists of a \$1,000 scholarship and summer employment with Dow Chemical at Freeport, Texas. The award is presented based on scholastic performance, school and community involvement and high proficiency on standardized college entrance exams. Stokes is the ninth K-State chemical

engineering junior to receive this award in the last 10 years.

The American Institute of Chemical Engineers award consists of a copy of *Perry's Chemical Engineers Handbook* and a certificate of recognition. The award is based on the student's scholastic average for the freshman and sophomore years.

Stokes has served as secretary of the American Institute of Chemical Engineers. He is a member of Alpha Chi Sigma chemistry honorary, Golden Key National Honor Society and the Kansas State Choir.





Shanna Tibbets and Kristi Cox, representing DST Systems, compare notes at their booth.

# Career Fair 1993

Both students and industry representatives found numbers to be down slightly but the quality of results up at this year's College of Engineering Career Fair.

Activities began with the Industry Recognition Banquet Sept. 27 at the Manhattan Holidome. Twenty-two corporations were on hand to visit one-on-one over dinner with the 110 students attending.

On Sept. 28, 35 representatives of industry and government agencies set up booths in the ballroom of the K-State Union to receive inquiries and information from more than 600 engineering students.

"Corporate recruiters said they were pleased with the caliber of students they met," said Barbara Finnegan, coordinator of the event.

Besides meeting students, recruiters had access to more than 400 resumes of graduating seniors and graduate students. The Minority Engineering Program



Lise Ostberg, left, talks to a prospecting student about employment opportunities at Conoco.

also presented a book of more than 100 resumes of minority and female students.

"Student feedback was very positive this year," said Finnegan. "Recruiters had more opportunities to offer this year in the way of jobs, internships and co-ops."

In addition to corporations and governmental agencies, representatives from Army and Air Force ROTC, Career and Employment Services and two student organizations, IEEE and ASME, were on hand to talk to students.



George Bisoglio, National Starch and Chemical Company, explains the ins and out of working for his company

Faculty, students and company representatives find time to mingle and makes acquaintances during the reception prior to the Industry Recognition Banquet Sept. 27.

Kristie Ward and Doug Rephlo, center and right, answer a student's questions about working for Koch Industries.





*Barnett, Burdge, Dutton, Grier, Whitney*

# Hall of Fame inducts five

The fifth annual Kansas State University College of Engineering Hall of Fame induction ceremonies were held Oct. 8 at the Manhattan Country Club. The college honored the four members of the class of 1993 with a reception and dinner, followed by dancing.

Those inducted were Robert W. Dutton (ME '56), Larry F. Burdge (ME '58), Jim R. Grier III (CE '60), and Herbert N. Whitney (CE '63). Also inducted from the Class of 1992, because he had been unable to attend last year's ceremony, was Irvin S. Barnett (CE '48).

Barnett is a retired senior vice president of the Martin K. Eby Construction Co., Wichita. He is a member of the KSU President's Club, serves on the KSU Construction Science Department Advisory

Board, is a past president of the Associated General Contractors of Kansas, is an honorary member of Sigma Lambda Chi and a member of numerous civic and church organizations.

Dutton is an executive partner with Black and Veatch Consulting Engineers, Kansas City, Mo. He is a member of the KSU President's Club; has received Outstanding Engineering Awards for several major power generation facilities; is a member of Who's Who in Engineering; and is an author of numerous technical papers.

Burdge is executive vice president and CEO of ADTECHS, Herndon, Va. He is past president of ITI-IACO, Inc., and is director of the world's largest nuclear safety program. He established a U.S. partner-



Guests and friends listen to comments by Dutton at the banquet Oct. 8 to honor the 1993 class of the



Irvin S. (Stan) Barnett  
and his wife, Enid



Larry F. Burdge  
and his wife, Linda



Robert W. Dutton  
and his wife, Chris





an Don Rathbone. More than 100 attended the of the KSU College of Engineering's Hall of Fame.



Above, Alice Fiedler chats with John and Helen Walter during the reception before the banquet.

Below, Charley Carter, retired president of ARCO Pipeline Co., and Barbara Wilson, a member of the board of trustees for the KSU Foundation, were on hand for the ceremonies.



Hal Siegele, retired CEO of Esso Norway and a member of the Hall of Fame, compliments Mary Sue Whitney on the tribute to her husband.



ship for a synthetic fuels project, and developed an overseas market for high tech scientific and space instrumentation.

Grier is president of Martin K. Eby Construction Company and Chairman of the Board of Utility Contractors, Wichita, Ks. Named a KSU Distinguished Alumni Fellow in 1991, he is on the Bank IV Kansas Board of Directors. Grier is president of Kansas & Missouri Area Boy Scouts of America and in 1987 was the recipient of the BSA Distinguished Eagle Award. He is also a member of the American Society of Civil Engineers and Associated General Contractors.

Whitney is president of CITGO Pipeline Company, Tulsa, Ok. He is on the KSU Engineering Advisory Council and a member of the KSU President's Club. He is general manager of CITGO Petroleum Corp., and director of Colonial Pipeline Company, Marine Preservation associate, and Lake Charles Pipeline Company. He is a member of the American Petroleum Institute and Men of Achievement in the Pipeline Industry honoree.



Jim R. Grier III and his wife, Carolyn



Herbert N. Whitney and his wife, Mary Sue



## MEP advisory council re-elects Jones

The Minority Engineering Program (MEP) Advisory Council met the afternoon of Sept. 27. During its meeting, the council reviewed the purpose statement and bylaws of the council, the status of corporate contribution assistance, highlights and objectives for the spring 1994 semester and elected new officers.

The council re-elected Hansel Jones chairman for a second year.

According to Karen Martin, MEP director, "You can expect to see more action from the committee for women's affairs. The committee will be working with SWE (Society for Women Engineers) to get more recognition for women engineers."

The college of engineering initiated its Minority Engineering Program in 1977 to identify and recruit students with an aptitude for math and science from underrepresented minority groups, provide them with support services and assist them in transitioning into the workplace upon graduation. The council also acts as a liaison between the program and supportive corporations.

Since 1977 more than 500 women and 160 minorities have earned B.S. degrees in engineering at KSU. Corporate support of the program this school year alone exceeded \$20,000.

## Hague named to presidential task force

Jim Hague, associate professor of electrical engineering technology, has been selected to serve on President Clinton's Federal Fleet Conversion Task Force. Hague also chairs the Department of Energy's Site Operator Users Task Force.

Clinton established the fleet conversion task force in April. According to Gary Mauro of Texas General Land Office, the primary mission of the task force is to develop a plan for the



**Jim Hague**

market development of alternative fuel vehicles nationwide.

Hague said the idea is for the government to buy electrical, instead of gas, vehicles. He said this would create a market for new types of vehicles, minimize pollution and stimulate the economy, as well as increase the job market.

"If we implement and develop this policy to save our environment and specifically limit air pollution, everyone benefits," Hague said.

Hague said electrical propulsion delivers 40-50 percent more efficiency than standard vehicles.

Hague said KSU was selected two years ago as one of 13 sites to test electrical vehicle technology.

### Deaths

■ continued from page 7  
**Gerard Colburn Nims (ME '48)**, Houston, Tex., died July 31, 1993.

**D. Paul Hutchinson (EE '29)**, Wichita, died May 28. He retired from Southwestern Bell Telephone in 1969 as a plant engineer after more than 40 years with the company. For 20 years, he and his wife, Katherine Fullinwider Hutchinson (HE '31), had "wintered" in South Texas prior to her death. He is survived by two sons, Donald P.

Hutchinson (EE '57) and Harrold R. Hutchinson (EE '59), five grandcontinued children and two great-grandchildren.

**Charles R. Engle (ME '53)** died May 29, 1993, at his home in Alexandria, Virg. He had a heart ailment. He received a law degree in 1959 and from 1959 to 1978 was a patent attorney for General Motors. In 1978 he became a law professor at George Mason Univ. Law School. Charles is survived by his wife Phyllis and three sons.



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Director, Engineering Experiment Station  
Gale Simons