

# IMPACT

Kansas State University College of Engineering

Vol. 30, Number 4 Fall 1995

## KSU fuels decision to build vehicle plant in Manhattan

A Kansas State University engineering professor has been credited with being the most influential person in a decision that will bring an electric vehicle manufacturing plant to Manhattan.

Troy Design and Manufacturing Co. (TDM) announced Sept. 20 that it will build a facility in Manhattan's industrial park to convert Ford Ranger pickups to electric power. Ford expects to sell about 1,700 electricity-powered pickups in the first two years to utilities, municipalities and other fleet owners. TDM currently produces prototype vehicles and components for the Big 3 auto makers and specializes in vehicle conversions for fleet owners such as Federal Express.

Jim Hague, associate professor of architectural engineering and construction science, who has been given much credit for



Dignitaries prepare to take the first shovels of dirt from the site of the new alternative fuels plant Troy Design and Manufacturing is building in Manhattan. Dean Don Rathbone, one of the team that helped bring TDM to Manhattan, is fourth from the left.

TDM's decision to come to Manhattan, served two years as the national chairman of a Department of Energy task force

whose primary mission was to develop a plan for the market development of alternative fuel vehicles nationwide.

Hague said TDM is coming to Manhattan to take advantage of resources provided by both KSU and the community, but he sees benefits for all parties.

"We're going to take advantage of TDM," he said. "We're going to see a genesis of a partnership between TDM, the community and the university."

The foundation for that partnership has already been laid, according to Bill Coppola, managing director of electric vehicle development for TDM, who said K-State was a key ingredient in the partnership that brought TDM to Manhattan. The partnership involves KSU and seven utilities companies in providing a \$1 million package for research support.

On the receiving end, KSU and Manhattan have garnered a desirable job provider. TDM officials said the new plant will provide 50 to 70 jobs initially, with



### Fiedler sees library model

Alice Fiedler views a model of the engineering library to be built to the east of Durland 'phase I (lower left). The library, scheduled for construction in 1996, will be named for her and her late husband, George Fiedler, a native of Bushton, Kan., and a 1926 KSU graduate in electrical engineering.

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## ***KSU fuels decision to build new plant***

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the potential to increase to over 100.

TDM expects the plant will offer KSU engineering students opportunities.

"I can see job potential for K-State students," said Coppola. "I can conceivably see students working at the plant their third and fourth years in school in cooperation with K-State and continuing into long-term careers with TDM."

Coppola said TDM will have jobs for mechanical and electrical engineers and be looking to hire college graduates with experience in quality operating systems.

TDM's new facility in Manhattan will

cover 40,000 square feet and take up about 10½ acres. In awarding the contract to TDM, Ford Motor Co. set a deadline of Feb. 15 for TDM's new facility to be open and ready to produce its first vehicle.

TDM officials said the Manhattan facility will also house an engineering center to design electric power trains and components. The center will support TDM's effort to design its own electric sedan.

The sedan will be a five-passenger with a range of 100 miles. The car's styling will be sporty, but not too extreme, Coppola said.

## ***Chung named fellow of ASAE***

Do Sup Chung, a professor in the department of biological and agricultural engineering at Kansas State University, was named a fellow of the American Society of Agricultural Engineers during recognition ceremonies June 19 at the society's annual international meeting in Chicago.

Chung was one of eight members the association honored this year. ASAE fellows are engineers "of unusual professional distinction, with outstanding and extraordinary qualifications and experience in the field of agricultural engineering and 20 years of active practice."

According to the organization, only about 2 percent of its members achieve the grade of fellow.

The group previously recognized Chung at the national level with the Kishida International Award in 1992, regionally with the Young Engineer of the Year Award in 1975 and in the state section with the Engineer of the Year Award in 1991. The society uses his writings as a reference in its ASAE Standards. He is a member of the ASAE Foundation's President's Club and is

## ***Enrollment steady***

Fall enrollment numbers at KSU's College of Engineering are similar to those of the fall of 1994, going from 2,598 to 2,584.

This 14-student decrease in undergraduates is partly due to a smaller freshman class, but the sophomore class enrollment is up by 43. The junior class is down by 10 students, and seniors saw the biggest drop, 31. Graduate school enrollment is at 486, a slight decrease from last fall's 522 students.

active in several technical committees and leadership positions at the national, regional and state levels.

Chung joined his department's teaching staff in 1965 and has since been named Faculty Adviser of the Year in the college in 1994 and been credited with developing the food engineering option in his department.

He received his bachelor's degree from Purdue University and his master's and doctorate from KSU. His areas of research and teaching concentrate on grain handling and storage and grain processing. Chung's research in the field of grain processing is internationally recognized.

## ***Wilson & Co. refurbishes conference room***

The Department of Civil Engineering has undertaken a refurbishing of its departmental conference room thanks to a \$10,000 gift from Wilson & Company of Wichita.

The conference room was first dedicated and named for Murray A. Wilson, cofounder of Wilson & Company in the fall of 1967. The company is now providing funds to update the furnishings.

"We've purchased new chairs for the room and installed a new visual center with a screen and marker board," said Stuart Swartz, head of the department. "We're planning to put in new carpet and repaint the room yet." Plans call for work to be completed by Dec. 1.

Wilson was a 1922 CE graduate of KSU. The university honored him with the Professional Degree of Civil Engineering in 1926, the Distinguished Service Award in 1957 and an honorary doctorate of science in 1963. Wilson founded his company with Robert Paulette in Salina in 1932.

## ***Eight new faculty join college for '95***

New faculty in the college of engineering for 1994-95 include the following departmental appointments.

### **Biological and Agricultural Engineering**

- Kyle Mankin, assist. prof. (term), Ph.D., AgE, Ohio State Univ., 1994.
- Kent D. Rausch, assist. prof./ext. spec., Ph.D., Food & Process Engg., Univ. of Illinois-Urbana, 1993.

### **Computing and Information Sciences**

- Matthew B. Dwyer, assist. prof., Ph.D., Comp. Sci., Univ. of Mass.-Amherst, 1995.
- Dimitrios Plexousakis, assist. prof. (term), Ph.D., Comp. Sci., Univ. of Toronto, 1995.

### **Electrical and Computer Engineering**

- Ruth D. Miller, assist. prof., Ph.D., EE, Univ. of Rochester, 1990.

### **Industrial and Manufacturing Systems Engineering**

- Margaret J. Rys, assist. prof., Ph.D., IE, Kansas State Univ., 1989.

### **Mechanical Engineering**

- Hui Meng, assist. prof., Ph.D., ME, Univ. of Houston, 1994.
- Bruce A. Reichert, assist. prof., Ph.D., Iowa State Univ., 1991.

The company now has nine divisions in six Midwestern and Western states.

Four of Wilson & Company's eight active owners are KSU CE graduates, and more than 40 of the company's 270 staff members attended or are alumni of KSU.

## ***DuPont/Conoco grants college \$60,000***

DuPont/Conoco has provided the college of engineering with \$60,000 in unrestricted grants through its DuPont Educational Aid program.

Mechanical engineering received two \$10,000 grants; the Center for Hazardous Substance Research and the department of electrical and computer engineering received \$10,000 each. Chemical engineering received \$15,000 and the Minority Engineering Program \$5,000.

# Three enrolled in Hall of Fame

Three distinguished engineers were inducted into the Class of 1995 College of Engineering Hall of Fame Sept. 29 at the Manhattan Country Club following a reception and dinner.

Of those inducted, two are KSU alumni, B. Floyd Bachus of Phoenix, Ariz., and Jarold Boettcher of Beloit, Kan.

A surprise inductee was Donald E. Rathbone, dean of KSU's College of Engineering.

Bachus is a 1942 graduate of Kansas State in mechanical engineering. He also holds an MBA from Creighton University. He is retired from AT&T Technologies Inc., where he was senior staff engineer. He has been active in ASME, ASE, and has served on various committees and boards for engineering societies and legislative issues. Bachus holds nine patents and is a member of the KSU Presidents Club. He and his wife Ruth live in Phoenix, Ariz.

Boettcher graduated from K-State in 1963 with a degree in nuclear engineering. In 1966 he completed a master's degree in industrial management from MIT. He is president of Boettcher Enterprises Inc., Beloit, where he lives with his wife Barbara. Boettcher has been active in various KSU Foundation roles, is a member of the President's Club, and has received the College of Engineering Distinguished Service Award. He has served on several advisory and study committees and boards for agricultural-related programs



**At the reception, Mary Siegele, wife of hall of fame member Hal Siegele, chats with Eva Fan, wife of L.T. Fan, head of the department of chemical engineering, while Mary Sue Whitney, wife of another hall of famer, Herb Whitney, visits with banquet attendee.**

for the Kansas State Board of Agriculture. He is a past president of the Kansas Fertilizer and Chemical Association.

Rathbone holds the Paslay Chair in Engineering at KSU and was the Kansas Engineering Society's Engineer of the Year in 1993. He is also a fellow of the American Society for Engineering Education. He is a past national chair of the Professional Engineers in Education, National Society of Professional Engineers. He also has been the Engineering Dean's liaison to the U.S. Department of Energy. He is chairman of the board of

the Kansas Entrepreneurial Center and a Paul Harris Fellow of Rotary International. His B.S. in electrical engineering is from Purdue, his M.S. from Northwestern and his Ph.D. from the University of Pittsburgh.

The College of Engineering Hall of Fame was formed to recognize outstanding graduates from the college. One individual who is not a graduate of the college may be named to the hall of fame each year. The college has more than 15,000 alumni, but less than 100 members in its hall of fame.



**Jean Don Rathbone presents B. Floyd Bachus with a plaque commemorating his nomination to the hall of fame.**



**Jarold Boettcher receives his commemorative plaque from Dean Rathbone during ceremonies Sept. 29.**



**University Provost James Coffman congratulates Dean Don Rathbone on being a surprise nominee to the hall of fame.**

# CE to build one-of-a-kind lab

Sparked by a \$345,000 anonymous gift, the Department of Civil Engineering at Kansas State University has launched the building of a one-of-a-kind research laboratory to study highway construction techniques.

"We expect to sign the contracts this week, with construction to begin as soon as possible," said Stuart Swartz, head of the civil engineering department at KSU. "We're planning a late spring dedication."

The facility, the Testing Laboratory for Civil Infrastructure and Highway Research, will be constructed adjacent to the College of Engineering's Manufacturing Learning Center in Manhattan's Industrial Park. The 5,500-square-foot building will house the Accelerated Testing Laboratory (ATL) and the Falling Weight Deflectometer (FWD) State Calibration Facility.

The Accelerated Testing Lab will analyze various pavement designs and be the primary facility in the building, as well as its showcase operation.

"The ATL is going to be absolutely unique," Swartz said, "in that we can apply repetitive wheel loads to full-size pavement sections while we're testing the effects of temperatures and moisture as well. Other labs in the country can test wheel loads or temperature, but not both at the same time."

Swartz said the pavement sections will be built in place, using the same methods contractors use to build roads. "KDOT wants to test actual pavement," he said.

Besides being able to test either concrete or asphalt pavements, the ATL will also be able to test concrete pavement joints, sections for bridge decks, bridge piers, highway bases and subgrades, and the effects of water tables and shoulders.

## KSU student recognized by Tandy

Kansas State University student John M. Herrington was named a Tandy Technology Scholar, one of 100 students from across the nation.

Tandy Technology Scholars is a recognition program for secondary schools. Created by Tandy Corporation, the program honors outstanding achievement in math, science and computer science every year.

The awards include \$2,500 stipends to 100 high school teachers, \$1,000 scholarships to 100 high school students and certificates of recognition to all nominees and to all seniors from participating schools who are in the top 2 percent of

The laboratory will be able to test road sections for the effects of repetitive, direct wheel loads up to 40,000 pounds, particularly for the effects of rutting and fatigue.

While much of the temperature control design work was completed by Orazem and Scalora, a Manhattan engineering consulting firm, Swartz was able to tap university resources for much of the other planning and design work.

"University Facilities helped us design the structure and professors Kuo-Kuang Hu, Hani Melhem and Mustque Hossain from our department were involved with designing the space and some of the test equipment," Swartz said. "And we got a lot of consulting help from Prof. Hugh Walker from the mechanical engineering department on the load testing equipment."

Funding for the laboratory is coming from both private and public sources.

In addition to the private donation, Kansas Technology Enterprise Corporation (KTEC), Kansas Department of Transporta-

tion (KDOT) and Cardwell International Ltd. of El Dorado, will invest more than half a million dollars to equip the facility and put it into operation, Swartz said.

Cardwell International has licensed the patent for the Load Transfer System for Concrete Pavement, known as X-Flex, from the KSU Research Foundation for commercial development and marketing. Swartz, Hu and Professor Philip Kirmser developed the system and hold the patent rights to it.

Swartz said that besides KDOT, the roads and transportation departments in several neighboring states have shown an interest in using the laboratory for testing pavements. He said he also expects the FWD lab to bring in revenue from across the region. There are only four other such calibrating facilities in the United States, with the closest being in Minnesota. The FWD facility will house equipment to calibrate state road testing equipment.

## MLC trains students; helps industry grow

Kansas State University's Manufacturing Learning Center (MLC) contributes to the vigor of the manufacturing segment of the economy by training engineering students and by assisting manufacturers in solving problems.

As a full-service product and manufacturing process prototyping plant, the MLC provides small and midsize companies—mostly in Kansas—an opportunity to use the latest technologies in their operations. The work can flow from the center to a manufacturer or from a manufacturer to the center and back.

The learning center uses a multidisci-

plinary approach in teaching students from all branches of engineering.

"Students provide a service while learning by working on real projects exactly like medical students working on real patients," said Farhad Azadivar, director of KSU's Advanced Manufacturing Institute, which operates the MLC. "We hire students as interns. We want them to be in the program for about three semesters."

"In addition to providing a valuable technical service to manufacturers, the center places emphasis on hands-on training for students. We hope this program will encourage manufacturers to hire these students because they have already worked on their projects," Azadivar said.

"We bring the technology here and develop it more. A lot of the manufacturers have brilliant ideas about new products and processes," Azadivar said. "But they're busy doing day-to-day work and never get a chance to try these ideas. We bring these ideas here and work on them. When they're ready for implementation, we send them back."

It is easier for a manufacturer to shut down for two weeks to implement an idea than to shut down for six months or more to develop it, Azadivar said.

The center's 22,000 square foot house state-of-the-art machinery and software. It also has a conference center with a complete multimedia presentation system.

# '95 Career Fair draws more companies, students

Kansas State's second annual universitywide Career Fair Sept. 19 proved again that the approach has more to offer everyone.

"We were ahead of last year," said Karen Pence, assistant dean of human ecology and chief of publicity for the event, referring to the number of companies participating and the number of students who attended.

The 1995 Career Fair drew 173 companies, of which 80 declared a specific interest in meeting engineering students, and "student traffic was steady all day long. I would guess we had more than 2,000 students," Pence said.

Quantity is not the whole story, however. Pence said KSU responded with quality as well.

"The company representatives commented on how well prepared the students were. They were also well pleased with the number of resumes they collected."

Planning and publicity prior to the fair facilitated the number of contacts made, Pence said. "We did something different this year. We published the list of companies participating and provided a diagram of the Union showing where those companies would be. Since the fair was held on three floors, this helped students find the employers they wanted to talk to."

Pence said student attitude was visible.

"Students took the Career Fair seriously," she said. "They came in dressed in their suits and ties. And those who didn't were embarrassed."

The companies offered more, too.

"Many companies were looking for interns and co-ops," Pence said. "Many students are beginning to see these situations as entries into the companies they



**Deere and Company representatives Becky Nordin, a KSU grad, and Hansel Jones visit with engineering students during the Career Fair Sept. 19.**

want to work for."

The college of engineering hosted two events in conjunction with the career fair.

"On Sept. 18, the college held its 12th annual Engineering Industry Recognition Banquet at the Manhattan Holidome," said Barbara Finnegan, the college's career fair coordinator. "Representatives from 21 corporations each hosted a table for students interested in learning more about that company."

A reception beforehand gave students and faculty a chance to get acquainted in a more informal setting. More than 150 students attended the banquet.

The college also co-hosted a Mock Interview Day with KSU's Career and Employment Services on the 18th.

"Representatives from 13 corporations conducted more than 125 mock job interviews with our engineering students," Finnegan said. "This event not only benefits our students, but as one representative said, 'It was nice to be able to talk to students. I feel I benefited as much as they did.'"

Overall, the event earned high marks from all participants. "This year's career fair received a good evaluation by students and a good evaluation by employers," Pence said.

## College launches Rathbone Leadership Society

The Kansas State University College of Engineering established the Rathbone Leadership Society this summer.

The society's goals are to continue recruiting the top students in Kansas, both in scholarship and leadership potential; provide our students a high-quality and well-rounded education; recognize donors whose gifts make these goals possible; and recognize Dean Don Rathbone's many contributions to the college and the university.

"The Rathbone Leadership Society provides an opportunity for our college of engineering alumni and friends to join their peers to enhance one of the nation's

foremost engineering programs," said Mark Moore, KSU Foundation president.

The Rathbone Leadership Society signed its first members in July 1995 and was endorsed by the College of Engineering's Advisory Council during its September meeting. The 22 College of Engineering Advisory Council members support the concept of a leadership society to further the base of financial support for the college and aptly recognize Dean Rathbone's 23 years of leadership.

"Don Rathbone has done a tremendous job leading the college of engineering in a dynamic and demanding environment—the college is stronger than ever, with

exemplary students, faculty and facilities," said Rhea Serpan, chairman of the advisory council. "It is a challenge to me and all college of engineering alumni to lend our moral and financial support to see the college into the 21st century as an outstanding engineering program."

To demonstrate your belief that the next generation of engineers must be sustained and enhanced in the college of engineering at KSU, consider joining in the Rathbone Leadership Society.

Your annual gift of \$1,000 qualifies you for membership. For more information, contact Eileen Reichert, College of Engineering, KSU Foundation, 913 532-7542.

**John P. Woolcott (Flour Mill Engg. '33)**, Chester, Ill., and his wife Bernice Covey Woolcott (Ed. '35) celebrated their 60th wedding anniversary in June. John retired from ConAgra in 1977. Their daughter Mary Ann is also a K-State graduate.

**Earl R. Bain (ChE '55)** retired from IMC Fertilizer, Sterlington, La., Oct. 1991, after 36 years of service.

**Wilbur A. "Pat" Pattison (CE '57)**, Harlan, Iowa, retired March 31, 1995, from Western Engineering Co., an asphalt road contractor, after 30 years of service. He is now traveling, playing golf, and "enjoying life!"

**Richard K. Allen (EE '59)**, Orange, Calif., retired in April 1995 after 35 years with Rockwell International Corp., Auto-netics Division. He was principal engineering specialist for inertial navigation equipment for the Navy's Trident nuclear submarines. He spent his entire career in the development of military guidance and control electronic systems.

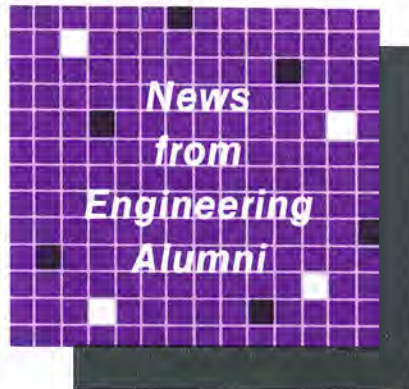
**James E. Browne (EE '60)** retired June 1, 1995, after 26 years with the Boeing Co., and nine years with the Dept. of Defense. Jim and his wife Moyné live west of Lynden, Wash., near their grandchildren. He received his MSEE from the Univ. of Md. in June 1967 and his P.E. license from the state of Washington in 1972.

**Thomas L. Brown (EE '60)**, Anaheim, Calif., retired from Rockwell Int'l five years ago where he had spent 30 years on design work for Apollo spacecraft equipment as well as overseeing compatibility of avionics on the Space Shuttle.

**Donald R. Schmidt (EE '60)** retired in April after 33 years with the ocean systems division of the National Oceanic and Atmospheric Administration (NOAA). He and his wife Rita reside in Lanham, Md.

**William W. Porath (NE '61, M.S. '64)**, Kennewick, Wash., has retired from Siemens Power Corporation-Nuclear Division after 21 years of service.

**Donald Dean Oswald (ME '62)** retired in September 1993 after more than 31 years with the Kansas City, Mo., division of Allied Signal Aerospace. He currently



owns and operates a cattle ranch in Greeley, Kan.

**Dean E. King (EE '63)** retired from U.S. Air Force Civilian Service in Oct. 1993 with 31 years at Wright-Patterson AFB. He served as an acquisition manager for Aircrew Training Devices for the Aeronautical Systems Center. He and his wife Judy live in their Wilmington, Ohio, residence near their three children and three grandchildren.

**John Mein (EE '75)**, Santa Clara, Calif., is director of field operations for Fujitsu Microelectronics, Inc.

**Terry J. Zimmerman ('75)** has accepted a position as technology manager in waste management, U.S. Dept. of Energy, Pantex Nuclear Weapons Plant, Amarillo, Texas.

**Randall Sylvester (CE '77)** has been promoted to senior staff engineer at Conoco's Ponca City, Okla., refinery. He has also been selected as a charter member of the KSU CE Advisory Council.

**Randall A. Smischny (EE '79)**, Lawrence, Kan., is ATM Product Manager for SPRINT, Network Product Planning and Integration, Kansas City, Mo.

**Ernest J. Straub III (CnS '79)**, Lenexa, Kan., owns Straub Constructon Co., which employs 25 people and projects \$8-9 million in sales this year. The company recently moved to its new facility from Overland Park. The company is a "light commercial" firm, specializing in building structure such as schools, retail facilities and multifamily apartments.

**Gary Paul Rosewicz (CE '81)**, Blue Rapids, Kan., accepted the position of Marshall County Engineer in Jan. 1995. He had previously served as Chase County Engineer for four and one-half years.

**Angela D. Pickett Smith (IE '82)** married Malcolm A. Smith on June 11, 1994. She is project engineer with the Dept. of Energy, Weldon Spring Remedial Action Project, Weldon Springs, Mo.

**Gary Koets (EE '82)** and his wife Lisa announce the birth of a son, Matthew, July 25, 1995. Gary works for IBM in Fort Worth, Texas.

**Eric L. Unruh (EE '82)** married Susan L. DeShetler Oct. 1, 1995. They live in San Jose, Calif., and both work for TRW-ASG, Sunnyvale, Calif.

**Kevin Hoit (CompSci '83)**, Kansas City, Kan., and his wife Tammy announce the birth of their second son, Joshua Tanner, July 26, 1995.

**David Castor (ME '83)**, product manager with Group Schneider, Grenoble, France, and his wife Lisa are expecting their first child in November.

**Randy Hahn (CompSci '84, M.S. '86)**, Herndon, Va., and his wife Kathie announce the birth of a daughter, Callie Marie, July 20, 1995.

**Dennis Aitken (ChE '84)** has accepted a position as maintenance manager in Paris, Ill., at Illinois Cereal Mill, Cargill.

**Brent Tracy (ChE '85)**, Highlands Ranch, Colo., is studying law at the Univ. of Denver College of Law. He is senior environmental engineer for Total Petroleum, responsible for air and wastewater issues.

**Carl Curry (ME '87)**, Littlefield, Texas, is a project engineer for Southwestern Public Service Co. He and his wife Kim had their first child, Abigail Rae, June 15, 1995.

**Calvin Reimer (CET '87)** was married on June 24, 1995, to Kathryn Fields of Jacksonville, Fla., whom he met while working at the U.S. Embassy in Moscow, Russia. They are currently assigned to the Engineering Services Center at the U.S. Consulate in Morocco where Calvin, a member of the U.S. Foreign Service, is a Security Engineering Officer.

**Hilary L. Steinert (EE '88)**, her husband, Wayne, and son, Zachary, 2, announce the birth of their daughter, Z'Ellen, August 21, 1995. Hilary is a project engineer with ARCO Pipe Line Co., and

Wayne is a regional computer systems administrator for PanalPina USA in Houston, Texas.

**Shane Pouch (CNS '89)** recently accepted a new position with Burns & McDonnell Engineering, K.C., Mo., as an assistant project manager in the newly formed Construction Services division. He and his wife Heidi live in Olathe, Kan., with their son Jacob and new baby on the way.

**Luis H. Sosa (IE '89)**, Caguas, Puerto Rico, and his wife, Laura, announced the birth of their daughter, Emily Jean, July 12. He works in materials management for Johnson & Johnson.

**Brent Bestwick (IE '90)**, Shawnee, Kan., and his wife Allison announce the birth of their first child, Tate Merrill, Aug. 8, 1995.

**Philip E. Schreiber (EE '90)** has taken a position with R.S. Stover Co., Marshalltown, Iowa, as a systems engineer.

**Krishnan Shankar (IE '90)** is currently a program manager and game designer in the Simulation Games Group at Microsoft Corp., Redmond, Wash.

**Joe Schmidt (IE '90)** and his wife Tammy, Wichita, Kan., announce the birth of their first child, Ariel Marie, Sept. 9, 1995.

**Susan (Spangler) Baughn (NE '90)** married Ray K. Baughn June 10, 1995. After earning an M.S. in NE from the Univ. of Wisconsin-Madison in 1991, she accepted a position with Siemens Power Corp.-Nuclear Division, Richland, Wash., and has been there four years.

**Lynne (Dearasaugh) Howard (CE '91)** received her M.S. in CE from the Univ. of Colorado in Dec. 1994. She married Stephen Howard July 1, 1995, and they reside in Reston, Va., where Lynne is employed by Ch2M Hill.

**Ross Stites (EE '91, M.S. '93)**, Roseville, Minn., will begin his Ph.D. in EE at the Univ. of Minnesota. His wife Shannon (BA '91, M.S. Acct. '92) will continue as an auditor with Ernst & Young LLP in Minneapolis.

**Beth Kernes Krause (NE '92)** is a reactor engineer at Cooper Nuclear Station, Brownville, Neb. She and her husband Ralph had their first child, Benjamin George, June 13, 1995.

**Maury L. Wilmoth (ME '92)** has accepted a position with CITGO Pipe Line Company as district engineer for Badger Pipe Line, Arlington Heights, Ill.

**Heba S. Bishara (ChE '93)** is now in her second year with the College of Medicine at the University of Oklahoma.

**Michael Pankratz (M.S. EE '93)**, after five years with IFR Systems Inc., has

accepted the position of design engineer with Newer Technology, Wichita, Kan. The company designs and manufactures peripherals for Apple desktop and laptop computers.

**James Geirtz (ME '93)** and his wife Sonja, Olathe, Kan., announce the birth of a daughter, Cassidy Rene, May 22, 1995. James is employed at Trans World Airlines.

**Jeremy Ostrander (BAE '95)** and his wife Tamera have returned to the family farm in Winchester, Kan., and their first child, Reiny Lynn, was born Aug. 23, 1995.

**Eric DeVolder (CIS '95)** has accepted a position with Motorola in Austin, Tex.

## Deaths

**Daniel P. Heigele (AgE '38)**, Independence, Mo., died Aug. 22, 1995. He was retired from Panhandle Eastern Pipeline.

**David H. Gruver (ME '47)**, Overland Park, Kan., died of heart failure in October 1993. He is survived by his wife Francine, two daughters, one son, and five grandchildren.

**James F. Stout (CE '51)** died Jan. 13, 1995, in Las Cruces, N.M. He was retired from state and federal government positions in Alaska where he had worked as a civil engineer. He is survived by his wife, Wilma, two sons, one daughter, and five grandchildren.

## What's new with you?

We'd like to know—and so would your former classmates. Please take a few minutes to jot down job changes, professional or other activities, your retirement or remembrances you'd like to share. Use this form, or write to Mike Dorcey, the editor of IMPACT, using one of the addresses below.

Name \_\_\_\_\_

Major/Class year \_\_\_\_\_

Address \_\_\_\_\_

News for IMPACT \_\_\_\_\_  
\_\_\_\_\_  
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Send to IMPACT Editor, by mail to ● College of Engineering, Kansas State University, 146 Durland, Manhattan, KS 66506-5104; by e-mail to ● mdorcey@oz.oznet.ksu.edu; by fax to ● 913-532-6952

# K-Stater named one of top 10 college women

A national magazine has chosen a Kansas State University senior as one of the top college women for 1995.

*Glamour* magazine selected Michelle Munson, a senior in electrical engineering and physics from Junction City, from nearly 1,000 entries. This is the 38th year that the magazine has honored outstanding women undergraduates.

She was awarded a \$1,000 cash prize, a profile and photographs in *Glamour's* October 1995 issue and an all-expenses-paid trip to New York. In New York, Munson attended an awards presenta-

tion and met with the editors of *Glamour* magazine and top professionals in their field.

Munson attributes her success to a family and professors who have supported and encouraged her all the way.

"Women are both wanted and needed in engineering right now, but social conditioning and the stereotypes of 'engineers' are still discouraging to women," she told the magazine. "I'm lucky. I always had mentors to encourage me."

Munson spent the summer helping develop new computer chip materials

and is currently doing research on superconductors. Munson also has founded a project to install an Internet server in her hometown.

A Barry M. Goldwater scholar and honors student, Munson discovered a way to blend her scientific knowledge and political interests when the American Institute of Chemical Engineers chose her paper, entitled "NAFTA and the Environment," to be read to Congress. Many members of Congress responded to the paper with enthusiasm.

"It really solidified my desire to be involved in scientific policy," she said. Munson now plans to pursue an engineering doctorate and one day run for office.

Munson was evaluated by a panel of judges. They were looking for leadership abilities, personal involvement in community and campus affairs, and academic excellence.



**Michele Munson**

## CIS team places third at Montreal competition

A robotics team from the department of computing and information sciences at Kansas State University was awarded third place in the Mobile Robot Competition in August in Montreal.

The International Joint Conference on Artificial Intelligence and the American Association for Artificial Intelligence sponsored the fourth annual competition.

The K-State team placed third in the office delivery event, using two Nomad

200 commercial robots from the department's robotics and control laboratory. Team members designed and developed the software for the robots.

On the team were graduate students Doug Chapman and Eric Runquist and senior Pawel Osiczko and junior Brian VanDoren, all computer science majors.

David Gustafson, professor of computing and information sciences, sponsored the team



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