IMPACT

Kansas State University College of Engineering Vol. 32, Number 1 Winter 1997

Associate Dean Ken Gowdy to retire

By Mike Dorcey

Ken Gowdy, associate dean of engineering, has announced that he will retire in mid-June.

Since coming to campus as an undergraduate in 1950, Gowdy has spent most of his career at KSU, with the exception of two two-year breaks to serve in the Air Force and to get his doctorate at Oklahoma State, and a five-year stint as head of the engineering technology department at Texas A&M.

During that time, in addition to being associate dean, he has taught, been assistant dean and been head of a new department, engineering technology.

But not all Ken Gowdy's successes in life came after he became an engineer. Among his less known accomplishments was his play on the K-State football team as an undergraduate. In his senior year, 1953-1954, he played center on the team that posted one of only five post-World War II winning seasons until the advent of Bill Snyder, running up a 6-3-1 record.

That year he also made the Academic All-American Football Squad, second team; the All-Big Seven Football Squad, second team; and played in the North-South Shrine Football Game in Miami.

As he approaches retirement, Gowdy said he will miss a number of things, the people in the dean's office and the department heads and faculty he has worked with over the years. "And, it's been a great pleasure to be associated with Dean (Don) Rathbone," he said. "He's the finest person I've ever worked for."



Ken Gowdy

But, he reserves a special place for students.

"Oh, I think I'll miss the students the most," he said. "One of the fascinating things about this job is that as you get older, the students

continued on page 2

College of Engineering honors Gray Breidenthal

In December, Dean Don Rathbone recognized the generosity of Gray Breidenthal, Kansas City, Kan.,to the KSU College of Engineering with a plaque.

"During the past two decades the college received outstanding support and gifts from Gray," said Dean Don Rathbone.

Breidenthal has supported many critical projects and needs of the college with generous donations totaling more than $1.5 million.

"Whether it's been answering the call for support of Phase II of the Engineering Complex or for generous support of scholarship needs, Gray Breidenthal has been a great friend of the college," Rathbone said. "His most recent gift in June 1996 of more than $900,000 will touch virtually every facet of the college's educational mission."

Breidenthal directed Rathbone to use the gift in areas were it would do the greatest good for the students and the college.

Breidenthal was chairman of the board of Security National Bank and was a prominent member of the greater Kansas City banking community.

In addition to his personal support of the College of Engineering, the Willard J. and Mary G. Breidenthal Foundation has contributed more than $180,000 to the college's Engineering Scholarship Fund. This fund has supported the scholarship needs of thousands of engineering students.

"The Breidenthal family tradition of philanthropic leadership is a tremendous asset to the state of Kansas and Kansas State University," Rathbone said. KSU



Dean Don Rathbone presents Gray Breidenthal an award of appreciation from the college, noting his generous support, guidance and friendship for the past two decades.

Chang awarded for contributions to engineering

By Bree Bisnette

As an industrial and manufacturing systems engineer who specializes in quality engineering, one Kansas State University professor is familiar with setting standards for production lines and classrooms.

But Shing Chang sets standards in more places than industry and education. He is one of 12 persons nationwide in the field of manufacturing engineering who will be presented with the prestigious Ralph E. Cross Outstanding Young Manufacturing Engineer Award.

The award honors those under age 35 who have demonstrated leadership and made significant achievements in the manufacturing engineering field. The award will be given to him at a Society for Manufacturing Engineers conference scheduled for May 20-23 in Lincoln, Neb.



Shing I. Chang

"Shing has done an outstanding job here at K-State," said Bradley Kramer, head of the industrial and manufacturing systems engineering department. "This is a very high honor Shing has received and it speaks well of Shing and his accomplishments. He has developed both the undergraduate and graduate level quality engineering courses and put a lot of innovative labs into those courses which have been recognized nationally."

Within the five years Chang has been at K-State, he has developed two new courses in quality engineering and received a grant from the National Science Foundation to build a unique laboratory where students can use their new knowledge in a simulated production-line environment.

"If you just give students lectures and exams, sooner or later they'll fall asleep," Chang said. "I try to give my students real-world projects so they have what it takes to understand the technology and be able to apply it. I don't just teach them about technical tools. It's the thinking process I go after. I want them to look at the problem, formulate and then find a way to solve that problem.

Chang has also been a leader outside the industrial engineering department. Chang is the director for the Division of Quality Control and Reliability Engineering of the Institute of Industrial Engineers. Through this organization he helps bridge the communication gap between engineering in industry and academia.

In addition, Chang has received research grants which he has used to develop new systems to manage product quality in industry. His research has been funded by the National Science Foundation, the Society of Manufacturing Engineers, the Mid-America Technology Corporation and the Advanced Manufacturing Institute.

"Dr. Chang is dedicated to teaching the engineers of the future and has invested himself in creating innovative labs, projects and methods," said Kramer. "His research is relevant and important to U.S. manufacturers and is essential to improving the manufacturing competitiveness of American companies." KSU

IEEE names two fellows

Two KSU engineering faculty members have been named fellows by the Institute of Electrical and Electronics Engineers (IEEE).

Don Rathbone, dean of engineering, and Stephen A. Dyer, professor of electrical engineering, were selected for the honor by the IEEE board of directors "for contributions to and leadership in engineering education" at its mid-December meeting. The honor became effective Jan. 1.



Don Rathbone



Stephen Dyer

Being named a IEEE fellow is one of its most prestigious honors the organization can bestow on its members. Fewer than one member in a thousand will receive this honor in 1997, according to Wallace S. Read, IEEE president.

IEEE, which dates back to 1884, has 320,000 members in more than 130 countries. KSU

Gowdy announces retirement

continued from page 1

stay the same. Engineering students are very bright, and it's a wonderful opportunity to interact with them at this stage of their life."

In recent years, Gowdy taught four to six hours of class each semester, courses such as thermodynamics, career development and engineering concepts. But he liked the honors colloquium class best.

"It's good for students at that age to stop and think about who they are, where they're going, their personal values and the ethics of the profession they're entering," he said.

If you hear a bit of the philosopher in those words, it's not out of character.

"I'm a contemplative person," he said. "I don't have a rocking chair, but I like to sit on the porch, maybe sip a little tea and just think, or read. That's something I'm going to do a lot more of."

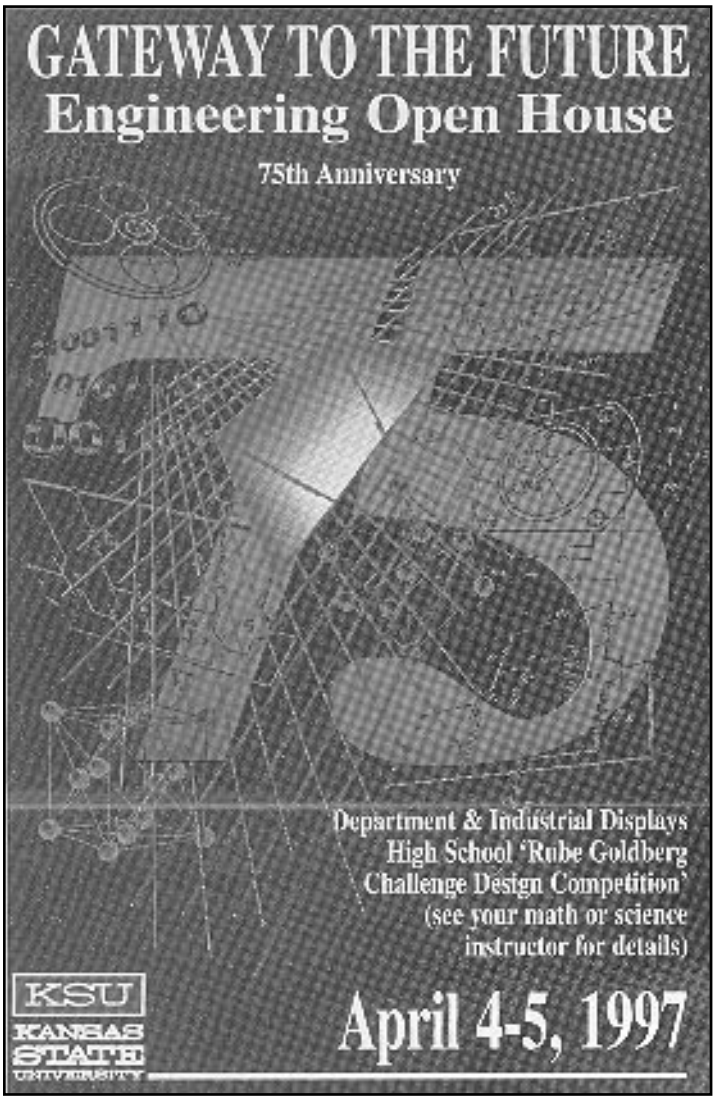
Besides reading — mostly history, cosmology and theology — Gowdy likes to write poetry, something else he plans to do a lot more of in retirement.

Beyond that, he plans to spend time with nature photography and doing volunteer work, as well as travel with his wife, Dolores. KSU

Significant Events

■ Minority Advisory Council meets	March 12
■ Minority Symposium	March 13
■ Open House	April 4-5
■ Gowdy retirement banquet, Manhattan Country Club	April 19
■ KSU Alumni Reunion	April 24-25
■ Rathbone retirement banquet, Manhattan Holidome	May 3
■ Commencement	May 17
■ Joseph F. Merklin retires	May 17
■ Hermann. J. Donnert retires	June 1

Open House '97: 75th anniversary



Schedule

April 4, 1997

Engineers' Open House Parade . . . . . Noon
(Mid-Campus Drive)
Engineering Opening Ceremonies
(Front steps of Seaton Hall)
Torch runner's arrival . . . . . 12:10 p.m.
Presentation of Yellow Brick Award. . . . . 12:15 p.m.
Crowning of St. Pat and St. Patricia. . . . . 12:25 p.m.
Engineering Awareness Seminar for High School Students
(Paslay Lecture Hall, Durland Hall)
Registration . . . . . 1:30 p.m.
Seminar. . . . . 2-4 p.m.
Engineering Student Displays and Open House of Facilities
(Durland, Seaton and Ward halls). . . . . 5:30-9 p.m.
Industrial Displays . . . . . 5:30-9 p.m.
(Durland, Seaton and Ward halls)

Saturday*, April 5, 1997

High School Design Contest . . . . . 8-9 a.m.
Registration (Durland Hall Atrium)
Steel Ring Honorary Alumni Reception . . . . . 9-10 a.m.
(Sunflower Room, K-State Union)
High School Design Contest . . . . . 9 a.m.-noon
(Durland Hall, Paslay Lecture Hall)
"Rube Goldberg Challenge" design competitions
Engineering Student Displays and Open House of Facilities
(Durland, Seaton and Ward halls) . . . . . 9 a.m.-4 p.m.
Industrial Displays . . . . . 9 a.m.-4 p.m.
(Durland, Seaton and Ward halls)
Engineering Alumni Luncheon . . . . . Noon
(Flinthills Room, K-State Union; limited seating)
Engineering Social Hour . . . . . 5-6:15 p.m.
(Cats Pause, K-State Union)
27th Annual Engineers' Open House Banquet . . . . 6:30 p.m.
(Main Ballroom, K-State Union; advance reservations only)

***** Saturday is also "All University" Open House at KSU.

Reservation form

Check off those events you will attend and return this form with payment to the address below.

___ I plan to attend the Engineering Alumni Luncheon on Saturday, April 5, 1997, and have enclosed my check for ____ tickets at $5 per person. (Contributors to scholarship funds and other funds and activities administered through the Dean's Office are invited as guests of the College of Engineering.)

___ I plan to attend the Engineers' Open House Awards Banquet on Saturday, April 5, 1997, and have enclosed my check for ____ tickets at $10 per person.

___ I will attend the social hour at the Cats Pause, K-State Union. Please reserve ____ places for me.

_____
Name

_____
Address

_____
Phone

Please make checks payable to the KSU Foundation. Deadline for reservations is **March 21, 1997**.

Return this form to:
Donald E. Rathbone
Dean of Engineering
Kansas State University
142 Durland Hall
Manhattan, KS 66506-5104

K-State professor, high school teacher team up for project

By Beth Bohn

Students at a suburban Kansas City high school are getting turned on to the technology behind electric power as part of a project sponsored by the National Science Foundation through a grant to Kansas State University.

"More Power to You" was developed by Anil Pahwa, electrical and computer engineering professor at K-State, with help from Greg Long (EE '90), who teaches science at Olathe (Kan.) North High School.

The project, made possible by a $5,000 supplemental grant Pahwa received from the National Science Foundation, seeks to develop interest and understanding of electrical power systems by high school students. Pahwa's grant was one of only three the National Science Foundation awarded for developing projects on the subject.

"The idea is to introduce basic ideas about power systems to high school students so they can learn more about it and consider careers in the electric power area," Pahwa said. Twenty students at Olathe North are involved in the project, which is part of an integrated math and physics class being team taught by Long and math teacher Julie O'Brien (EdMth '91).

Pahwa said he chose Olathe North as site of the project because of Long's background. KSU

KSU team has solar "Solution" forthcoming

By Evan Dean

The "Solution" to Sunrayce '97 is finally off the drawing boards and into production.

The Kansas State University Solar Car Organization (KSUSCO) has nearly finalized all of the primary design work on "Solution," KSU's first entry in a solar car competition.

Sunrayce '97, a major biennial solar car race among entrants from colleges and universities from across the nation, will be held in June. It will last 10 days and run from Indianapolis, Ind., to Colorado Springs, Colo. It will be full of long, hot days that will test engineering and challenge strategy. Team KSU plans to meet that challenge.

With the aid of faculty advice, the student engineers of KSUSCO stand on the verge of bringing their vision to fruition — a vision labored on for more than a year.

Team members still have a great deal of work to complete. As materials and parts roll in, they will begin machining and verifying the fit of the assembly. The frame has been welded and the mold for the fiberglass shell is being formed. The hubs are ready to be machined and the suspension and brakes are ready to be assembled.

The electrical crew has cycled the batteries and is coming up with the various wiring harnesses needed. They have also started testing a maximum power point tracker — a device that automatically adjusts for optimum power consumption during the race.

The team is working to get things ready for trial runs in late March and for the Sunrayce Qualifier in April in Arizona. KSU

Former EE professor dies at age 96

O.D. Hunt, professor of electrical engineering from 1923 to 1970, died Nov. 23, 1996, in Manhattan.

He was born April 13, 1900, at Hopkins, Mo. His family moved to Saskatchewan the next year to homestead. They moved to Emmett, Idaho, in 1912.

Hunt graduated from the State College of Washington, now Washington State University, with a bachelor's degree in electrical engineering in 1923.

That fall he joined the faculty of Kansas State University as an instructor of electrical engineering. He received his master's degree in electrical engineering in 1930.

He was an exchange professor at the University of Pittsburg during his tenure, and took a leave of absence for 1½ years during World War II to work with the Sylvania Electric Products Co., Salem, Mass.

His primary fields of interest were electric power and illumination.

After retiring, Hunt returned each semester from 1980 to 1991 for six weeks to counsel electrical and computer engineering students in pre-enrolling. He established a seminar style of counseling for pre-enrolling.



O. D. Hunt

He was a charter member of the Heart of America section of the Illuminating Engineering Society and served as its chairman for one year. He was also chairman one year of the National Illuminating Society's Committee on Farmstead Lighting. He earned the National Illuminating Award.

He was also a member of the American Institute of Electrical and Electronic Engineers, the American Society of Engineering Education, Eta Kappa Nu, Sigma Tau, Phi Kappa Phi and Pi Lau Epsilon.

He married Lovey A. Wright in 1923 at Emmett, Idaho. She preceded him in death in 1977. He was also preceded in death by a son, Nathan A. Hunt, in 1992.

Survivors include a son, Marvin W. Hunt, Kansas City, Mo.; a daughter, Barbara L. Honey, Los Alamos, N.M.; 10 grandchildren and 12 great-grandchildren. KSU

Construction foundation creates scholarship

By Roger Steinbrock

Kansas State University-Salina has received grant funding from the Kansas Contractors Association Construction Education Foundation for scholarship support in the 1997 and 1998 school year.

The donation of $2,500 yearly has created two scholarships. Each $1,250 scholarship is designated for a sophomore student attending K-State Salina in the civil engineering technology curriculum.

"The support shown by the Construction Education Foundation is outstanding," said Beth Shearer, development officer for K-State Salina. "Its support will assist us in attracting the best students for a field that continues to have a high demand for graduates."

The Kansas Contractors Association Construction Education Foundation, Topeka, provides assistance in educating individuals about the benefits of working in the construction industry. KSU

NASA-EPSCoR and KTEC grant $3M to Kansas universities

KSU researchers lead four project teams

By Kay Garrett

College of engineering faculty will participate in a grant of $3 million to five Kansas regents institutions for combined research in advanced aeronautics, space and related technologies.

NASA's Experimental Program to Stimulate Competitive Research and the Kansas Technology Enterprise Corporation made the award, to be carried out during the next three years.

NASA and KTEC each will contribute $500,000 a year.

Kansas State University, University of Kansas, Pittsburg State University, Emporia State University and Wichita State University submitted collaborative proposals for the work involving 38 faculty and two students.

Research will be in aeronautics, mission to planet Earth, human exploration and development of space and space science.

Kansas State University faculty will head four of the six project teams.

Ron Trewyn, K-State's associate vice provost for research, said, "The significance of this accomplishment cannot be overstated. NASA bore severe budget cuts during the past year, so our receiving this substantial, highly competitive award speaks volumes for the quality of the proposals put forth by the faculty at K-State and the other regents institutions," he said

In addition, KTEC will assist in creating the industrial partnerships that are needed to stimulate technology transfer of benefit to Kansas.

Research initiated by a team of K-State, KU and WSU faculty will cooperate on three projects that support NASA's aeronautics effort and the aviation industry of Kansas.

* K-State, KU and PSU faculty will develop enabling sensors and information technologies for the next generation of user-friendly advanced cockpits for general aviation aircraft.

* Faculty from K-State's Center for Gravitational Studies and ESU faculty will study biological, chemical and physical processes in the space environment.

*KSU, ESU and KU experts in environmental remote sensing will help NASA understand the earth system as well as the effects of natural and human-induced changes on the overall global environment.

KSU College of Engineering faculty and their projects are:

- Principal investigator Peter Gorder, mechanical engineering, with Garth Thompson, mechanical engineering: "Advanced information subsystems for next generation general aviation aircraft."
- Kevin Lease and Youqi Wang, mechanical engineering: "Studies of the role of surface treatment and sizing of carbon fiber surfaces on the mechanical properties of composites containing carbon fibers."

KSU

KSU IEs make good press

Students of KSU's Department of Industrial and Manufacturing Systems Engineering (ISME) were high-profile in the fall 1996 issue of *Student IE*, published by the Institute of Industrial Engineers (IIE).

Elizabeth VanGoethem's name appeared in a list of IIE scholarship winners. She received the United Parcel Service Scholarship for Female Students.

Another article reported that KSU's ISME team won first place in the 1996 Student Simulation Contest, an event sponsored by IIE and Systems Modeling Corp. Accompanying the article was a photograph of the KSU team, featuring students Todd Lakin, Kevin Hafer and Daniel Knox and faculty advisor (and department head) Brad Kramer pictured with Randy Sadowski of Systems Modeling.

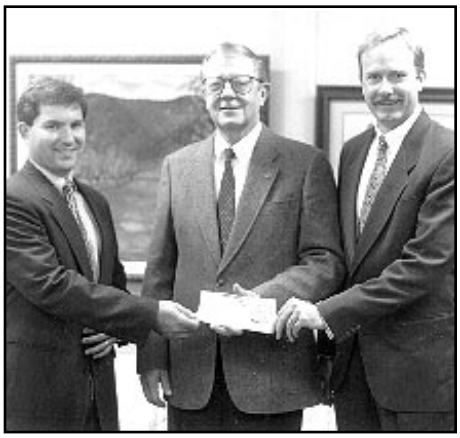
Todd Lakin also made another, and major, appearance in a feature story about internships. Lakin wrote the story about his own exeriences as an intern for various politicians. Accompanying the story were photographs of Lakin shaking hands with President Bill Clinton, meeting Sen. Bob Dole and having his picture taken with other interns with Vice President Al Gore.

Rounding out the KSU presence in the magazine was a 1/4-page ad for KSU's ISME department. KSU



Phillips provides support

Dean Don Rathbone receives a check from Tim Taylor (ChE '75), general manager of plastics operations at Phillips Petroleum Co., Oct. 17 on behalf of Phillips. The gift was given for use during the 1996-1997 school year to support scholarships, minority programs and professional development activities for both students and faculty.



Exxon aids departments

Exxon Corporation representatives Kevin Pyle (ChE '85), air quality engineer, and Ron Thomas (CE '81), right, staff engineer, present a check from Exxon to Dean Don Rathbone Oct. 8 for departmental grants for the 1996 academic year. The gift was unrestricted for any educational purpose within the departments.

Glenn D. Farrar (EE '35) says that the 20 years since he retired from General Electric has gone fast. But he says that he and his wife Carolyn are still enjoying life, though at a slower pace due to his multiple sclerosis. He still plays first violin in a string quartet that meets in their home and keeps busy on his new Pentium- and Windows 95-equipped computer. He feels especially close to his alma mater these days because his granddaughter is working on her master's in speech therapy at KSU.

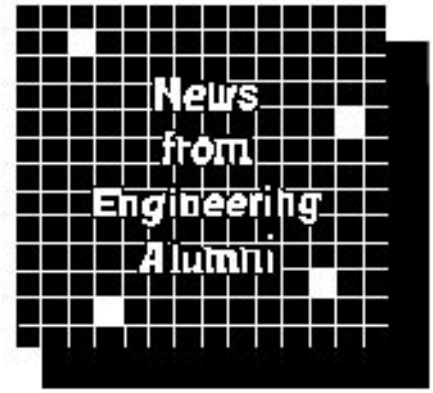
Fred F. Townsend (CE '40) Cararillo, Calif., spent six months with the Kansas Department of Transportation in western Kansas after graduating. In 1940 he married Dolores Donez, who is still with him. He then spent six months with the U.S. Corps of Engineers supervising levee construction on the lower Mississippi River delta before moving on to California, where he spent 29 years with the Federal Aviation Administration supervising airport landing facilities and VORTAC construction in 11 western states. He retired in 1970. He now lives in Camarillo. He is 86 years old now and been retired for 26 years.

Duane W. Cooley (CE '58), Cameron, Mo., retired from the Missouri Highway and Transportation Department Aug. 1, 1996, after 38½ years. He was a resident engineer.

Warren H. Blacklock (IE '60), Libertyville, Ill., has retired after spending the last 17 years with General Electric and 18 years prior to that with Abbott Laboratories. He and his wife Betsy plan to spend their summers in Vermont and to travel. They have two children, Laura and Warren Jr., who both live in Chicago.

Joel R. Kesler (EE '60), Leawood, Kan., retired as a senior partner of Black & Veatch at the end of 1995 after 37 years of service. He led design activities for construction projects at U.S. nuclear weapons plants and various Department of Defense facilities. He led the design of the electrical power system for the eastern province of Saudi Arabia. He also designed numerous electric power generation, transmission and distribution facilities in the U.S. In retirement, he plans to enjoy leisure activities, travel and his grandchildren.

Pat Nevins (CE '60) was the city supervisor for Oak Harbor, Wash., for the last 11 years before retiring in January 1996. He is currently working as an engineering/management consultant to several cities.



Robert Lathrop Bennett (ME '62), Phoenix, Ariz., remembers that, after having promised one of his professors never to take employment in an area where dynamic machine design was to be undertaken, he was able to graduate. Since then he has experienced the joys and struggles of working for large and small companies and his own business, as well as the pleasure and pain of family relationships, including divorce and loss of children. He is now rallying from a financial disaster at age 64, which includes restarting a small marketing consulting company, expanding a small jewelry manufacturing company he started in 1983, telemarketing for a local service bureau and announcing for an occasional horse show. He has kept his promise to never engage in the design of dynamic machines or components!

Jack D. Bailie (ChE '64), Houston, Texas, recently retired from Exxon Company USA after over 32 years of service in the U.S. and Australia. He spent most of his career creating, maintaining and enhancing the production department's computer automated production system and was the technical advisor for the group when he retired.

Mike Beier (ChE '72) has moved to Norman, Okla., after being in the Kansas City area for 10 years. He is now the plant director for Shaklee Corp.'s nutritional and supplement and pharmeceutical plant. He and his wife of 26 years, Mary, have a son, Michael, 11 years old.

Jim Kelley (ME '73) is director of facilities maintenance and construction for the Auraria Campus in Denver. The campus has 33,000 students. He was recently named president of the Rocky Mountain Region of Facilities Administrators. He lives with his wife Carolyn and their three children in Littleton.

Trenton L. Williams (ME '77) Denton, Texas, was recently promoted to facilities manager for Texas Instruments' electronics facility in Lewisville, Texas.

Kirk E. Miller (CE '82) and **Timothy R. Austin (CE '84)**, Wichita, Kansas, established a new civil engineering consulting firm in October 1996. The firm, Austin Miller, P.A., specializes in transportation, land planning, construction services, utilities and water resources.

Trent D. Peterson (CNS '82) Houston, joined Tillman and Associates in September 1996 as a sales engineer. He sells air-conditioning and heating equipment. On Nov. 22, 1996, his first child, Sarah Kaitlin, was born.

Polly Robinson Piergiovanni (ChE '82) and her husband Tony announce the birth of their daughter Geneva Christiana April 24, 1996. She joins her older brother A.J., who is 3½.

Brian Bednar (EET '83), Phoenix, Ariz., has accepted a position as a business account manager in the marketing department at Salt River Project on electric and water utility. His accounts are in the electronics segment; he calls on companies such as Intel, Motorola and Microchip.

Teresa Brown-Bruch (IE '84) and her husband Mark Bruch, Brownsville, Texas, announce the arrival of their first child, Ashley Marie, born Oct. 25, 1996. Teresa works for Delco Electronics and Mark for Delphi, both in Matamoros, Mexico.

Neil Frihart (EE '84) started as an instrumentation and controls engineer with Callidus Technologies Inc. in Tulsa, Okla., in February 1996. He and his wife Denise also announce the birth of their daughter McKinzie in September 1996.

Ricardo Zayas (IE '84) Guaynabo, Puerto Rico, was promoted in 1995 to plant manager at Warner Lambert's pharmaceutical operations in Vega Baja.

Kevin F. Jaderborg (ME '85) and his wife **Shelley (Schreiber) (IE '85)**, Shawnee, Kan., announce the birth of their second child, Kristina Parker, Oct. 9, 1996.

Erich Volkman (EET '85) and his wife **Chantel Huddleston (CET '85)**, Spring Hill, Kan., announce the birth of their first children, Caleb Cole and Marissa Rae, on Sept. 26, 1996. Erich is North American telecommunications manager for Hoechst Marion Roussel and Chantel is a CPE product manager for Sprint, located in Kansas City, Mo.

Todd M. Postier (IE '86) completed graduate work at Wichita State University to earn his master's degree in industri-

al and manufacturing engineering (manufacturing option). The topic of his master's project was "Recycling/Reutilization of Composite Materials." He continues to work as a manufacturing IE for the Defense Contract Management Command under the Defense Logistics Agency in Wichita, Kan.

Martha (Mardi) Smith House (ME '87), St. Charles, Mo., and her husband Ted announce the birth of their second child, Catherine Ann, on July 30, 1996. Mardi works part-time on the space station program with McDonnell-Douglas.

Barry and Karen (Fischer) Walker (both EE '87), Topeka, Kan., have both accepted new positions at QuVis, a company working on digital video applications, in Topeka. They also had a daughter, Taralyn Jae, born Sept. 3, 1996. Her brother, Garrett Reagan, is 2.

Robert Copple (IE '88, '89), Wichita, Kan., and his wife Kim (EdElm '88) welcomed their first child, Allison Marie, Nov. 5, 1996. Bob was recently promoted to director, facilities management, with Via Christi Regional Medical Center in Wichita.

Brian W. Hulsey (ARE '88) has joined Dressler Consulting Engineers in Overland Park, Kan., as a project engineer. He assesses commercial properties for lenders and performs structural design.

Michael R. Smith (CE '89), Newton, Kan., and his wife announce the birth of their first child, Ashley Nicole, Dec. 10, 1996. Michael is the head of engineering at Prestressed Concrete Inc. in Newton.

Rob Wesch (ME '89), Austin, Texas, married on Oct. 28, 1995 to Tracy. He has recently been promoted to director of operations for Southern Union Gas.

Kimberly A. Billones (ARE '91) and **Timothy C. Sullivan (ARE '92)**, both of Houston, announce their engagement. They plan to be married in Houston this spring or summer.

Abdul Kasim (CIS '91), Boston, is currently pursuing a master's in management at the Massachusetts Institute of Technology in Cambridge, Mass. He plans to graduate by June '97.

Steve Coleman (ME '92) has been promoted to pipeline safety senior engineer at the Kansas Corporation Commission, Topeka. He and his wife Kim had a son, Tyler Charles, born in November 1995. Steve is working on his MBA at Washburn University.

Todd G. Giefer (ARE '92) was recently promoted to the rank of captain in the U.S. Air Force and been assigned to the Lakenheath Royal Air Force Base, England, as a weapons systems officer on an F-15E. He, his wife Diane, their daughter Sydney and son Isaac will live in England for the next three years.

Kurt Nuss (ChE '92) has married Theresa Murphy (FSHS '95). He recently transferred to Black & Veatch's regional office in Ann Arbor, Mich., where he is a power plant design engineer.

Jeanne M. Purduski (IE '92, MS IMSE '96) moved to Houston in January after completing her master's degree in December and accepting a position as human factors engineer for Compaq Computer Corp.

Alison (Mott) Francis (EE '93, MS EE '95) married Von Francis Sept. 21, 1996. They make their home in St. Louis. She is a senior engineer at McDonnell-Douglas Aerospace there. Von is a regional sales manager for Allied Commercial Laundry.

Sanjay N. Gattani (CE '93), Wichita, Kan., recently moved to Boeing in Wichita, where he is working as a senior specialist engineer.

Don Hammond (CE '93), Oakland, Calif., completed his master of science in civil engineering at the University of California at Berkeley in May 1994. He recently became registered in California. He began working at Alan Kropp & Assoc., Berkeley, in June 1996 as a geotechnical staff engineer on commercial and hillside residential development and litigation projects.

Mark A Jordan (EECE '93), Lisle, Ill., is currently working for Andersen Consulting in Chicago where he specializes in object-oriented application development. He married Heather Rhemick Dec. 6, 1996. Heather is graduating from Depaul University in June '97 with a degree in psychology.

Brian Pitman (ME '93), Wichita, Kan., recently married Sherrill Meyer, who is a nurse. Brian is a stress engineer at Boeing.

Deaths

Alan A. Moore (EE '63, MSEE '64), Blaine, Minn., died Feb. 1, 1996, at the age of 56. He was a research engineer at Medtronics Inc. for the last 14 years and an engineer in the biomedical engineering department at the University of Minnesota for 15 years prior to that. He is survived by his wife Della (Turpin)(EdElm '66). KSU

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 _____

Send to *IMPACT* Editor, by mail to ● Engineering Extension, Kansas State University, 133 Ward Hall, Manhattan, KS 66506-2508; by e-mail to ● mdorcey@oz.oznet.ksu.edu; by fax to ● 913-532-6952.

Lin family funds upgrade of civil engineering lab

Kansas State University's Department of Civil Engineering has received a gift in the memory of a former faculty member that will enable it to upgrade and renovate a laboratory.

The gift, received through the Kansas State University Foundation, will be used to create the Albert Niu Lin Civil Engineering Project Laboratory, according to Stuart Swartz, head of the department of civil engineering.

"We use this lab for our Civil Engineering Project course," Swartz said. "This is the capstone course for our graduating seniors, who take it only in their last semester."

The grant will enable the department to buy five new computers and a printer and install new furniture, air conditioners, floor covering, window blinds and wiring to support the computers. The computers will be equipped with AUTOCAD software. A new bronze plaque at the door will denote the laboratory's new name.

Swartz said the Civil Engineering Project course normally attracts 20 to 25 students, who are divided into teams of five or six. Each team acts as a consulting firm on a major, local project, each team working on the same project. The projects are real, though they may never get off the drawing boards, Swartz said. The student consulting teams must conduct a transportation study, geo-technical study, environmental study, water supply study and a structural study of the proposed plan and site and then produce conceptual designs and design specifications, Swartz said.

"In its present configuration, the laboratory, in room 43 of Seaton Hall, will accommodate only four teams," Swartz said. "This new furniture will enable us to create space for five teams, and the new computers will make the lab state-of-the-art."

Also on display as part of the laboratory upgrade will be a device Lin invented that travels through small tunnels inside dams and sends back a video image, Swartz said. The device allows engineers to check structural integrity of dams in areas a human cannot get into.

Albert Lin was an associate professor in civil engineering at K-State. He was active in earthquake research while at KSU, according to Swartz, conducting considerable studies supported by the National Science Foundation on the dynamic response of cooling towers to earthquakes. Following that, Lin left K-State in 1990.

Lin's family has previously provided an endowment to provide three scholarships annually, one each to a junior, senior and graduate student.

"The entire laboratory upgrade will be 'portable,'" Swartz said. "It will be moved with the department to the new Phase III addition to the Engineering Complex, scheduled to begin construction in 1998."

The renovation work for the laboratory will begin immediately and will be completed during the 1997 spring semester, he said. KSU

Is it time to further your education?

The College of Engineering offers master's degree programs through distance education.

For more information, contact the Division of Continuing Education at 800-622-2KSU, or send e-mail to info@dce.ksu.edu.

KSU
KANSAS STATE UNIVERSITY

College of Engineering
Kansas State University
146 Durland Hall
Manhattan, KS 66506-5104

Nonprofit Organization
U.S. Postage Paid
Permit #525
Manhattan, KS 66502

IMPACT is published by the College of Engineering, Kansas State University, Manhattan, Kan., 66506. Subscriptions are available without cost upon written request. Material from this newsletter may be reproduced without permission, although credit to the source is appreciated.

Dean of the College
Donald E. Rathbone
Director, Engineering Experiment Station
Gale Simons