

IMPACT

Kansas State University College of Engineering

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Barrett makes \$1 million commitment to KSU, and Engineering

The former chairman of the board, president and CEO of Goodyear Tire & Rubber Co. has committed more than \$1 million to Kansas State University and its Essential Edge Campaign. The gift will create a faculty award program.



Tom H. Barrett

Tom H. Barrett, a 1953 K-State chemical engineering graduate and a Topeka native, has pledged \$1 million through the KSU Foundation to endow a university chair in chemical engineering. Barrett, who lives

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Tau Beta Pi names AlliedSignal 'Company of the Year', Smith 'Man of the Year'

AlliedSignal Inc., Kansas City Division, was named 1993 Company of the Year by Tau Beta Pi Engineering Honorary during ceremonies April 19. Lou Smith, president of the company, was named Man of the Year.

Tau Beta Pi and the College of Engineering have presented such awards annually since 1975 in recognition of companies committed to

higher education, the engineering profession, and support of the KSU College of Engineering. The Man and/or Woman of the Year is selected from the honored company in recognition of "high standards and quality performance in the engineering field."

AlliedSignal and its predecessor,

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Job-a-thon nets opportunities

Nearly 400 alumni from across the country provided jobs, contacts, referrals and advice to student callers during the Job-a-thon "pilot program" held during late April and early May.

The College of Engineering and the Career and Employment Services Office sponsored the program jointly.

The effort began by mailing 753 letters to engineering alumni identified in the KSU Alumni Association database. Eight nights of calling reached 395 alumni. More than 100 individuals, companies and organizations requested information on full-time, summer and co-op employment.

As a result of follow-up calls and letters, 15 firms listed 21 job openings, with many more indicating future interest. The majority of alumni called were anxious to help and spoke positively of the new approach to job seeking.

Marshall, Riemann named best in nation



Brad Marshall

Two KSU graduating engineering students have been named the outstanding students in the country by organizations in their professional fields.

The Eta Kappa Nu Association, an electrical engineering honor society, named Brad Marshall its outstanding electrical engineering student for the



Cynthia Riemann

1992-1993 school year and the Institute for Industrial Engineers honored Cynthia Riemann with its 1993 IIE Student Award for Excellence.

Marshall was presented the Alton B. Zerby Outstanding Electrical Engineering Student Award at the Eta Kappa Nu's international board of director's annual dinner in late July.

The IIE award recognized

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Rathbone named Engineer of the Year

Donald E. Rathbone, dean of K-State's College of Engineering, has been selected as the Kansas Engineering Society's Kansas Engineer of the Year. He was recognized at a banquet during the group's annual conference June 19 in Topeka. Rathbone has been dean of engineering since 1973.

Active in state and national engineering education, Rathbone was the national chair of the Professional Engineers in Education for the National Society of Professional Engineers (NSPE), has served on its board of directors and is presently on the NSPE Education Council. He has also been active in the Kansas Engineering Society, having been its legislative chairman for eight years and being the present Tri-Valley Chapter president.

"On campus, Dean Rathbone's most obvious tangible accomplishment is the Durland Hall facility,"

said Mark Schrock, past president of the Tri-Valley Chapter of KES. "From the initial planning stage through the funding process and final construction, Durland Hall bears the mark of Dean Rathbone's tireless commitment to quality engineering programs. His effort made the difference between just another campus building and a nationally-recognized architectural achievement that will support engineering in Kansas for decades."

Under Rathbone's leadership, "the college has grown significantly in size and stature," said William H. Johnson, professor emeritus of agri-



Donald E. Rathbone

cultural engineering and former director of the Engineering Experiment Station.

"His emphasis on an engineering minorities program is especially noteworthy and was recognized in January by the university as being superior," Johnson said.

Undergraduate enrollment increased from 949 to 2,650 and graduate student enrollment increased from 150 to 300 students during that period.

The equipment budget increased from less than \$50,000 in the early 1970s to an average of more than \$1 million dollars per year during the late 1980s and early 1990s, primarily from nonstate funds.

Research funding has increased more than tenfold and is now in the \$10 million category. The number of college faculty involved in research has more than tripled during the past 20 years.

Swartz honored by civil engineers

During the 1993 Civil Engineering Regional Conclave at Kansas State University, Stuart Swartz was honored for his dedication and professional development in the field of engineering.

Swartz, professor and head of civil engineering and Chi Epsilon chapter advisor, was awarded the Harold T. Larsen Award for Outstanding Service to Chi Epsilon.

Swartz has been on the faculty of the CE department at K-State since

1968. He was named department head in July 1992. His career also includes work as a research associate and instructor at Illinois Institute of Technology 1962-68.

He is a Fellow of the American Concrete Institute and the American Society of Civil Engineering. In addition, he is a Fellow of the Society for Experimental Mechanics, has served on the national executive board and as president and treasurer of the society. He is a member

of the Structural Testing Division and chairs the special publications committee. He is the convener and chair of the subdivision on fracture of concrete and rock.

Swartz received his bachelor's, master's, and doctorate in civil engineering from the Illinois Institute of Technology.



Stuart Swartz

SHPE hosts retreat for 12 universities

Members of Kansas State University's Society of Hispanic Professional Engineers planned and hosted a retreat March 26-28 in Kansas City, Mo., for students from 12 universities in Kansas, Colorado, New Mexico and Utah.

Activities at the event included workshops on diversity/team building; recruiting/motivation and proposals/networking and fund raising. Presentations by corporate and student leaders, a tour of Hallmark cor-

porate headquarters and sightseeing in the Kansas City area were also part of the plans.

Robert Soria, president of the K-State chapter, said members work to develop leadership, networking, and interpersonal and group dynamic skills by attending local, regional and national career fairs. Soria said members are also active at regional meetings and national conferences.

WELCOME! **Computer Information Science alumni**

Since the CIS department has transferred to the College of Engineering, you will be receiving IMPACT four times a year from now on.

Register soon for 1993 Career Fair

The College of Engineering will hold its annual Career Fair this year on Sept. 28.

The college invites corporations to display their exhibits from 9 a.m. to 3 p.m. that day in the ballroom of the K-State Union. The college anticipates more than 600 students from engineering and computing and information sciences; the KSU-Salina College of Technology will attend this year's Career Fair as well.

On Sept. 27, the College of Engineering will host its 10th annual Industry Recognition Banquet. Companies

may participate by hosting engineering students at this event. The banquet provides corporations an opportunity to visit informally with students and faculty.

The College of Engineering will provide each participating company or organization with two resume books—one with information about engineering seniors and the other about minority and women undergraduate engineering students.

Companies wanting information should contact Barbara Finnegan, Career Fair coordinator, at 913-532-5592.

Contributions recognized at graduation

At commencement ceremonies May 15, the College of Engineering honored the achievements of Edwin Kittner with the Distinguished Service Award and John C. Matthews with the James Hollis Award for Excellence in Undergraduate Teaching.

Kittner is a 1950 graduate of Kansas State with a B.S. in mechanical engineering. He is president of the consulting firm, Kittner Associates, as well as owner and manager of several farms.



Edwin Kittner

After graduation Kittner was employed as a plant engineer with Certain-teed Products Corp. Following a merger with Bestwall Gypsum Co., he served as project engineer for relocation of the plant. From 1965 to 1990 he was superintendent and chief engineer with Georgia-Pa-

cific Corp. in Blue Rapids.

Kittner is a member of the American Institute of Plant Engineers, the American Legion, Veterans of Foreign Wars, and the Blue Rapids school board. He has been active in Lion's Club and the Kansas Engineering Society, where he has been president of the Tri-Valley Chapter and a state director. A member of the Boy Scouts of America for more than 40 years, he was responsible for organizing more than 30 units. Kittner was on the Blue Rapids city council for 21 years, serving as mayor for eight of those years.

Kittner and his wife, Mary, were KSU Honorary Parents runner-ups in 1988. They have two sons, Joseph and John, both of whom graduated from the College of Engineering.

Upon recommendation of the students and faculty, the College of Engineering recognized Prof. John C. Matthews for outstanding achievement in undergraduate teaching in the Department of Chemical Engineering. A native of Illinois, Mat-

thews earned his B.S. and D.Sc. in chemical engineering from Washington University, St. Louis, in 1959 and 1965, respectively. He has been a member of the KSU faculty since 1962.



John C. Matthews

Matthews teaches courses in transport phenomena, chemical reaction engineering and materials science. His research has been in reaction engineering and catalyst characterization. He spent four summers with NASA at its jet propulsion laboratory in Pasadena, Calif.

He received the Halliburton Award in 1977 and was selected Advisor of the Year in the College of Engineering in 1981. In 1988 he was honored with the Segebrecht Award in Chemical Science.

Rainbolt awarded NSF fellowship

Robert L. Rainbolt, Kansas State University graduate in ChE, has received one of 32 National Science Foundation Fellowship Awards given in engineering. The fellowship is a three-year program with a stipend of \$14,400 plus the expenses of tuition.

The scholarship award was presented to Rainbolt on the merits of his application and letters of recommendation. He was recognized for his accomplishments in academic

performance, research direction, Graduate Record Exam scores and scholastic merit.

Rainbolt, who served as president of the American Institute of Chemical Engineers, corresponding secretary of Tau Beta Pi and treasurer of Omega Chi Epsilon, said his extracurricular activities benefited his academic career.

"My involvement in honors research in chemical engineering has allowed me to strengthen my techni-

cal skills by applying classroom knowledge to real world situations," Rainbolt said.

Upon graduation, Rainbolt will work for Proctor and Gamble in the alcohols division at their Kansas City plant.

"I am deferring the scholarship for two years to gain some industrial experience," he said. "After this period of time I will return to graduate school and use the NSF award."

Five retire from College of Engineering

Five faculty members, with varying of years of service, retired recently from the College of Engineering.

Naim Azer retired in mid-May after 30 years of teaching and research in the thermal-fluids area. He is an international authority on boiling and condensing refrigerant heat transfer. He is a long-time member of both ASME and ASHRAE, having received distinguished recognition for his efforts from both organizations.



Naim Azer

Ralph O. Turnquist has served the department of mechanical engineering for 28 years, and retired in mid-May. He coordinated and led capstone design and



Ralph Turnquist

second laboratory courses. His research work involved fluidics and fluid power systems. Academic society memberships included ASME, ISA, Fluid Power Society, and ASEE.

Earl Baugher has taught agricultural technology courses in the department of agricultural engineering for 26 years. He retired June 30. He has won several local and national teaching awards. Safety in machine use was always a component in his courses and since 1990 Baugher has been involved in a video production on combine operation safety and safety projects to reduce injuries to older citizens using agricultural machinery.



Earl Baugher

Fred Hoppe retired in late December. He came to the college in 1984 after a 34-year career in the automotive industry. During his nine-year teaching career at K-State, he and three of his students shared a design patent awarded as a result of a

senior class project. He is known nationally as an expert in truck design and in failure analysis techniques. He frequently consults on these subjects.



Fred Hoppe

Gerald E. Thierstein retired in March after nine years as a research agricultural engineer at the Scandia Irrigation Field near Scandia. His research there involved improving the water applications efficiency of furrow irrigation systems, tillage system testing, and sunflower harvesting equipment development. Prior to coming to K-State, Thierstein had a global teaching and research career in the agricultural engineering field.



Gerald Thierstein

Marshall, Riemann

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Riemann as winning first place for excellence in a nationwide competition among graduating seniors. IIE picked KSU's Riemann from among 40 nominees from 28 chapters for her achievements in academics, extracurricular activities and her leadership.

IIE presented Riemann with the award, which included a \$500 check, during the IIE Honors and Awards Banquet at the 1993 International Industrial Engineers Conference in Los Angeles May 25.

Riemann, during the spring semester, was also the recipient of USA Today and Marshall scholarships.

Barrett commits \$1 million

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in Akron, Ohio, also will provide \$23,500 annually to the program.

The gifts will provide a salary supplement to exceptional faculty members and discretionary funds for the college's dean. Barrett will permanently endow the program with \$1 million through his estate.

"Tom Barrett is one of the college's most successful graduates," said Donald Rathbone, dean of engineering. "His steady progress up the corporate ladder reflects his leadership ability and technical knowledge. This chair is a permanent legacy to his professional accomplishments and appreciation for K-State."

Barrett, who spent 40 years with Goodyear, began his career in 1953 as a trainee in Goodyear's Topeka plant. He was named president in

1982 and became CEO in 1988. He is now a director on several corporate boards and a partner in American Industrial Partners, a private investment company that invests in manufacturing companies.

Barrett received the KSU Distinguished Service Award in 1984 and was among the first class inducted into the College of Engineering Hall of Fame in 1989.

Barrett's wife, the former Marilyn Dunn, is a 1956 graduate of the KSU College of Education.

The Essential Edge Campaign includes 11 university projects and has received gifts and pledges exceeding \$153 million. The College of Engineering has received gifts, pledges and deferred gifts worth more than \$30 million. The five-year campaign ended June 30, 1993.

**Company, Man
of the Year**

**Tau Beta Pi
honors
AlliedSignal,
Lou Smith**

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The Bendix Corporation, have managed the U.S. Dept. of Energy's Kansas City plant for more than 40 years. Operations at the 3.2 million-square-foot facility focus on production of nonnuclear electrical, electronic, electromechanical, mechanical, plastic, and metal components for the nation's defense system and other DOE-approved technology transfer and "work-for-others" projects. One of the largest manufacturers in the area, AlliedSignal's Kansas City Division employs more than 4,400.

Smith holds a B.S. in electrical engineering from the University of Missouri-Rolla and an M.B.A. from Rockhurst College. Before assuming the presidency, he had served at the Kansas City Division as assistant general manager, administration. Prior to this, Smith served as vice president, manufacturing, for AlliedSignal Aerospace, Torrance, Calif.

Smith accepted both the Man and Company of the Year awards at the evening banquet in the K-State Union, while other AlliedSignal guests received certificates recognizing their contributions as guest lecturers.



Heba Bishara presents Lou Smith with his plaque naming him Tau Beta Pi's 'Man of the Year.'



Brian Grek presents John Morrison, vice president of operations for AlliedSignal, with his lecturer's certificate.



Rebecca Nordin presents Gary Cooper, manager of mechanical engineering with his guest lecturer certificate.



Jarad Daniels presents David Douglass, supervisor of mechanical engineering with his certificate.



Brenda Klingele presents Dennis Cummings, director of engineering and information systems with his certificate.



LaRoux Gillespie, supervisor, mechanical engineering, receives his certificate from Martin Riedel.

dar Rapids, IA, has accepted a position as senior systems analyst in commercial billing systems at MCI Telecommunications.

Mike Voth (EE '88) has accepted a position with Motorola as a senior systems engineer at the Detroit, MI, Applications & Systems Engineering Center.

David E. Herron II (ME '89) has opened a law practice as partner and shareholder of Herron & Owens, P.C. After receiving his J.D. from UMKC Law School in 1992, he has become a member of the Missouri and Kansas Bars and centers his practice in K.C., MO.

Russell D. Taylor (EE '89), Duncan, OK, received a master's degree in EE from Oklahoma State Univ. in May 1993.

Robert W. Young (EE '91), Twinsburg, OH, received his M.S. in EE from KSU in May 1993. He is a design engineer for P.C. Instruments, Inc., and recently presented a paper at the IEEE Instrumentation Measurement Technology Conference at Irvine, CA.

Ross Stites (EE '91, M.S. '93), has accepted a position as assoc. engineer at Rockwell Int'l, Collins Avionics and Communications Division. He and his wife Sharon (B.S. '91, M.A. '92) live in Cedar Rapids, IA.

John Curtis (NE '93) has been accepted at the Massachusetts Institute of Technology to begin graduate work in NE with an emphasis in nuclear waste management.

Jeff Newell (EE '91) and Amy Vincent Newell (ARE '91), Phoenix, AZ, announce the birth of their first child, Lauren Elizabeth, Oct. 28, 1992. Jeff is a technical sales rep. for Texas Instruments and Amy is employed by B&R Engineering and is pursuing a master's degree at Arizona State Univ.

Deaths

William L. Mertz (CE '49), Vienna, VA, died April 9, 1993, at his home. His employment career had been with the federal government--Bureau of Public Roads, Federal Highway Administration.

Clarence F. Reinhardt (ARE '28), Bartlesville, OK, died Feb. 4, 1993. He had worked for Phillips Petroleum. His wife, Elma, died June 3, 1993. They are survived by a son, a daughter and five grandchildren.

Lee Mertz (CE '49) died April 9, 1993, at his home in Vienna, VA. He had cancer. He had retired in 1988 as an assoc. administrator of the Federal Highway Administration. He had also been a consultant on transportation in the Middle East, Far East and Europe. He was the 1975

recipient of the transportation secretary's Meritorious Achievement Award. He was preceded in death by his wife Wanda and is survived by two sons and two daughters.

Kerry F. Clifford (ME '57), Brooker, FL, died of cancer April 17, 1993. He had been ill since September. He is survived by his wife Wanda, three children and five grandchildren.

KSU establishes 'French connection'

The KSU College of Engineering students now have an opportunity for exchange studies in France.

Finalized in late 1992, the program will enable students to study agronomy, architecture, food and material sciences, and chemical, civil, computer, electrical environmental, industrial and mechanical engineering at the Institut National Polytechnique (INPL) in Nancy, the cultural and educational center of Lorraine in northeast France.

Electrical engineering Assistant Professor Rodney Fox led the effort to establish the program. KSU engineering students can pursue a year of senior-level studies in their major at INPL. Or they may opt to work under a plan that offers senior-level course work followed by an industrial internship in a French company.



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Dean of the College
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Director, Engineering Experiment Station
Gale Simons