







Science and technology drive today's global economy. Our new innovations come from these fields. Put another way, the future of the world in this arena rests on engineers.

This was the point driven home in April at the ASEE Engineering Dean's Institute in Tucson, a meeting where I served as co-chair. But a second point was also front and center on our agenda—the U.S. is falling critically behind in educating and providing this engineering workforce.

A National Science

Eddie and Carol Fowler

Jerry and Donna Friesen Richard and Linda Gallagher

Sanjay Nandkishore Gattani William and Susan Goodman Jeffrey and Martha Hamilton

Lynn and Sarah Frick

Foundation report from February 2005 stated that the U.S. saw a 10 percent decrease in undergraduate science and engineering programs from 1994 to 2001, while during that same time period other parts of the world were seeing increases in the range of 25 percent.

Last year, there were 70,000 new engineering graduates in the United States. China, meanwhile, had 650,000 graduates in engineering; South Korea had 140,000 and Malaysia, 80,000. Forty-five percent of China's total graduates were engineers, compared to less than 5 percent of U.S. graduates. In the past decade, the percentage of scientific papers published by Americans has been cut in half, and we've witnessed a sharp decline in patents and Nobel prizes.

Our legislators are beginning to grasp this situation and have introduced a measure in the House that would forgive up to \$10,000 over the life of an undergraduate loan for engineering, science, and math majors who agree to work in those fields for at least five years after graduation. A similar bill is being prepared for the Senate

And what is our message to the young women and men we are recruiting to our programs? At a time when much of the world is investing in higher education, the U.S. seems to be disinvesting. Engineering is an expensive discipline. Dollars for scholarship support and cutting-edge facilities are critical to our success. Gifts like the Donald Lenhert Electrical and Computer Engineering Scholarship and ongoing financial support of our Seaton Society members and Telefund respondents represent the type of giving that will help us fund this challenge.

We must also continue to excite our students with research opportunities like Dr. Kuhn's NASA grant to aid the Mars mission. It should not go unnoticed that both of our recent Goldwater and Udall Scholarship winners cited their undergraduate research experience as key to their educational satisfaction. If you attended Open House this spring, you saw that student innovation and accomplishment filled the grounds and buildings of the Engineering Complex and Seaton and Ward halls

Our lawmakers have called this declining status in the fields of engineering, math, and science "a bigger threat looming over the United States than that of terrorists, weapons of mass destruction, or a stock market crash." We must do our part to change that course.

TERRY S. King, Dean

SEATON SOCIETY

Seaton Society members are those who contribute \$500 or more annually to any area in the College of Engineering. The college recognizes the following 2004 members:

Directors Leve

Tom and Marilyn Barrett Ira R Beer George Breidenthal Ron and Phyllis Choate Ruth L Coonrod Joe and Sherry Downey Gary and Margaret Edwards Donald J Gemaehlich James and Carolyn Grier III Darrell and Nancy Hosler Katherine Rose Hummels Mark and Mary Hutton Mark Larson and Donna Kottwitz Dean and Lavon Morton Laree Mugler Larry Nettles and Nadalie Bosse Thomas and Connie Paulson Bret Rose ennis and Merlene Ruckert John and Geraldine Schultz Rhea and Patricia Serpan Allen Smoll David Smoot Howard Spainhour Warren and Mary Staley Lawrence and Martha Stover Charles and Karen Strvker Tim and Sharon Taylor Jacqualine Trombly eg and Sara Tucker Ed and Eunice Wambsganss Jack and Nancy Zimmerman

\$5.000 to \$9.999

Walter Bellairs Brent and Lorie Doolittle Bowman Richard and Mary Corbin William H Dunn III Ike and Letty Evans Liang and Eva Fan Gordon and Joyce Goering Carl and Mary Ice Iris Karl David and Nancy Kays Richard and Hannah Kerschen Donald R Logan Samuel H Logan Harold and Olympia Lonsinger Edmond and Janice Murray Jr Anthony E Pianalto Robert Reay and Judith Fan Dennis M Rottinghaus Robert Lee Sextro Virgil and Vita Snell John and Martha Stack Dennis and Madelyn Yeo

Partner Level

Henry and Mildred Babcock Phillip and Victoria Baehr Larry and Judith Bennington Bradley Kent Blackman Marlin Breer and Joan Russell Charles and Linda Burton Howard and Alice Coleman Gary L Dick Charles and Jean Eby Martin and Melodee Eby Jr Larry and Laurel Erickson Mark and Susan Galyardt Preston and Norma Goodwin Randall and Deborah Groves Jerry and Rebecca Harkey Arthur and Georganne Hiser Kevin and Dianne Honomichl Edward and Ming Hsu Cleve Humbert Steven and Diana Janda James and Laura Johnson Neal and Susan Johnson Mary Lee Kind Bradley and Joyce Kramer Aaron and Renee Laird Donald and Anne Lenhert Mary Frances Lipper Jack and Deborah Lonsinger Scott Love Edward and Jeanne Mulcahy Jr Donald and June Prigmore Marc and Jody Ramsdale Haven and Barbara Rolander Dan and Marsha Ryser Howard and Patricia Sherwood Bob and Lila Snell Matthias and Dorothy Strahm V Larry and Eleanor Strecker Debbie Swinney James Lee Tadtman Spencer and Susan Tholstrup Robert and Bernita Thorn Vernon and Loma Wegerer

Leadership Circle Level

Richard and Eva Akins Henry Albert Jr Benson and Ruth Bachus Janice A Bailey John T Baker Walter and Margaret Belter Ken N Beyer Jarold and Barbara Boettcher Mark and Terrie Boguski Lyndon D Boyer Les and Kim Brack Arden and Karen Bradshaw Bill A Brungardt Charles T Carter Do Sup and Okkyung Chung Norman and Gloria Cook Wanda M Culbertson Robert and Sheri Curry James and Patty Dancer Matthew Ray Dassow John and Bonnie Devore David L Dittemore Lionel Joseph D'Luna Charles and Joan Dorgan August John Dornbusch Jr Leslie Iewell Doty David and Tamara Douglass Roger Lynn Douthett Robert N DuBois Blaine and Carolyn Englund Steven and Cathy Fairbanks Gilbert and Martha Ferguson William R Folsche

Wayne and Barbara Harms John and Colleen Harrison Fric and Suzanne Haskin Richard and Barbara Hayter Brenton and Bonnie Heidebrecht Duane and Mary Henderson James and Barbara Hengelfelt Albert Edwin Henry Jr Geneva B Henry † Perry and Erin Henry Chris and Kimberly Hess Rex and Rebecca Hillman Mark and Elizabeth Hodges Joe and Nancy Holland Philip and Jeannie Hollis Carl and Terri Hopkins Leonard Housto Robert Alan Hubbard Heh-Lin and Chai-Chong Hwang James and Judith Johnson Gary and Helen Johnston Jane Esser Jordan Natalie A Kelley Scott Mitchel Kelley Ray D Kennedy William Eugene Kennedy Jr Gregory and Lori Kern Dennis and Kelli Kerschen Terry and Kathleen King Douglas and Jodi Kirkland James and Susan Koelliker Todd Jay Korte David and Hope Krug Mike and Vera Lackey Iames and Diane Lambie Timothy Milton Lenz Ieffrev Charles Lessman Yonghua Li and Jiahong Liu Robert G MacKendrick Jr Larry Ray Martin Charles Dewain May Sr Warren Allen McElroy Steven Ray McKinnis Robert Harlan Mever John and Doris Miller Eugene and Mary Mingle Thomas and Joan Mistler Allen Eugene Moon Phillip and Janice Morris Joseph and Donna Murphy David C Nall Rodney and Anne Nicholson Carl and Janet 1 Gerald and Arlene Oppliger Jovce Owen Raymond H Owen William Ivan Owen † Perry and Virginia Peine G S Ranhotra Donald and Lynne Rathbone Alwin H Rector Kirk Dennis Reid Stephen and Eleanor Reiter Clyde Kitt Rodkey Jr Michael Dean Rogers Grover C Rundell Fred and Barbara Sachen Tracy Arthur Sandow Keith E Schoonover James and Linda Schroeder

Randell Sedlacek and Mary Ventura
Gilbert and Debra Selsor
Charles and Connie Sheppard
John W Shupe
Hal and Mary Siegele
Douglas and Jane Smith
Robert and Margaret Smith
William and Susan Stannard
Alfred and Mary Stecklein
Austin and Joan Stedham
Frederick and Lois Stoller
Ernest and Susan Straub III
Kenneth and Coleta Suiter
Gary and Lola Swanson
Gordon Wayne Thayer
Delbert and Sharon Thielman
Jeffrey Dale Vander Laan
Rex C Vernon
James Harvey Walker
Jeanne Hummels Wallace
Herbert and Mary Whitney
Carl Wilson
Robert and Patricia Zrubek

Colleague Level \$500 to \$999

Jack L Albright Norman and Malinda Anderson John and Beth Atherton John R Atherton ohn and Alberta Bailie John and Deborah Barrett Willis and Beth Barrett Lawrence Floyd Beil II Donald Allen Bellamy Norman R Bennett immie Lee Blakely Jeffrey Bone James and Kathrin Brewer Michael and Kathleen Brindley Fred L Brown Mark L Brown Donald and Mary Broyles William Bucher Kenneth Bueche Wayne and Stephanie Buhrer Tom Carlisle David Carr William Charles Carter Jr Marie R Cecil Virginia Ann Channell Te-Yu and Shu-Chen Chen Gary and Barbara Clark William and Janice Clarkson Randall and Jacqueline Coonrod Warren H Corbet Roger and Nancy Coulter John C Counter Terry and Tara Cupps Max L DaMetz Clinton and Virginia Davis Robert and Sandra Davis Richard B DeFries Raymond and Nancy DeLong T David Dicken John and Marcia Dimond John and Diane Dollar John Downey and Shannan Seely James and Candace Duncan

Keith Wayne Fager Joel Farrell Donald and Signe Ferguson Eugene L Fieldhammei Michael Flemming **Jav** Gaines im Gathers Barry George Jr Gerald and Janice Gfeller James and Nancy Gieber Jason and Stephanie Gillig Paul Giovagnoli Donald and Linda Glaser Calvin and Joy Gooden Chuck and Susan Grier James Wayne Guthrie Harry and Kelly Guy David and DeAnn Haake Paul Francis Habiger Hekmat Hakimian Kevin and Julie Hame Betty Jean Hanson Mark and Betty Hanson Richard E Hanson Todd and Janell Harman Jay and Therese Hathaway Douglas and Tadhi Hayes James Heise Dean Hiebert Brent Hill ames and Jada Hill Steven Hill Steven Hill Joe and Pamela Hodges James and Betty Holman Philip and Marilouise Huff Beverly Jaderborg Don and Donna Jermain Diane Johnson-Adamed Kenneth Johnston Byron Wayne Jones Bruce and Linda Koe Brent Korte Scott and Staci Kring Rex Largent Richard Larson Scott Lauridsen ohn and Nancy Leutert Chris Lewis David Lichtenauer and Tara Thomas William Liggett Shane and Kelly Lutz Bedford and Lois Magnus Kristopher Mailen Daniel Malone Jerry Marr Lewis and Marjorie Martin Mark and Yvonna McAfee Robert McGriff Thomas McMillen Raymond Meisenheimer Robert Montgomery II Robert Moyer Shawn Mulvaney Kathleen Mundhenke Maria Munoz Jon and Sharon Murdock Casev and Chervl Mussatto Craig and Dalene Nelson Brian and Deborah Newcomer Randy Mark Newcome Timothy and Belinda Nightingale William B Nixon Don and Karen Norton

Gilbert W Egbert Jr

Paul and Sherry Novick Otto and Ruth Oberhelman Ir Robert E Olmstead Benjamin Olson Price Oman Joseph O'Reilly John Owen Loris Parrish Kenneth Pecis Max Peterson Leroy and Mary Joyce Pickett Jerry Poole Van and Sharon Pooler Robert and Dona Prince Keith Pugh Anita Ranhotra Jimmy Rash Edmund and Deena Reeve III Gerald and Annette Reitmayer Richard Hanson Thomas and Karen Roberts Jerry Robertson Ronald Rogers William Ross Paul Rothers Ira Rundell Donald and Ann Schaechtel Brian and Patricia Scheibmeir Lawrence A Schulte Jr Donald and Phyllis Schultz Martin Severance Dennis and Vicki Shanks Richard and Marian Shimer William and Karen Shump Ping Huei Sih Randall Smischny Robert Snead Robert and Colleen Snell Jr Steven Spence Christine Steichen Steven Steps Curtis and Jill Stewart David and Julie Stewart John Stewart Chad Strait Kenneth Stuckey Donald Stuewe Robert Swenson William Swenson Alan and Sharon Sylvester Frederick Talbot Richard Teichgraeber Gerald Thierstein Eugene and Barbara Thorson Darreld and Angelika Toothman Jr Deaun Kay Trayer Gary Turner Reuben and Helen Vanderwilt Jr Anthony Veith Lewis and Diane Von Thaer Virg Wallentine Marcia Watkins John and Betty Weese Richard Weidler Nathan West Brian Wichman Bradley Wilson Clifford Wilson Landra Wilson Iames Winzeler Don and Treva Wiruth Paul Woods Clinton Young Joseph Young John and Patricia Zimmerman Kenneth and Julie Zimmerman

Founders Level: The Seaton Society awards lifetime membership to its founders. Each has made a commitment in excess of \$100,000 to engineering education excellence.

Ray and Barbara Adee Clifford L Alcorn Arnold and Terri Allemang James and Betty Allen Tom and Marilyn Barrett Vonnie Bateman Walt Bellairs Bill and Phyllis Binford Marlin Breer and Joan Russell Frank and Elizabeth Burke Chuck and Linda Burton Charley Carter Eugene Carter Richard Clarke † Ruth L Coonrod
Dick and Mary Corbin
Roger and Nancy Coulter
Terry and Tara Cupps
Stuart and Janie Curtis
Dean Dillon
Richard and Marilee Donaldson
Joe and Sherry Downey
Loring and Kathryn DuBois
Gary and Peggy Edwards
Larry and Laurel Erickson
Ike and Letty Evans
Gordon and Joyce Goering
William Hauber

Ralph and Virginia Hermon Kenneth and Mary Hewson Virginia Honstead Mark and Margaret Hulings Cleve Humbert Helen and James Hurley Meilang Hwang Barbara Johnson Bruce and Jeane Johnson Gary and Helen Johnston Robert Kountz Linda Lee Mildred Lee Don and Anne Lenhert

Tzi and Tsi Lin
Harold and Olympia Lonsinger
Mike and Cindy Manley
Kenneth and Kay Martin
Clyde and Maurece McCauley Jr
Dean and Lavon Morton
Laree Mugler
Elmer and Vivian Munger
Phillip and Jean Myers
Carl and Janet Nuzman
Dale Olson
Gerald and Arlene Oppliger
Clair and Sara Palmer
Perry and Virginia Peine

John and Joan Ransom
Don and Lynne Rathbone
Alwin Rector
Raymond † and Virginia Richardson
Stan and Donna Rieb
June † and Ellen Roberts
Dennis and Merlene Ruckert
Jim and Linda Schroeder
Gilbert and Debra Selsor
Rhea and Pat Serpan
Joe Shepek
Hal and Mary Siegele
Dean and Sharon Skaer
Llovd and Sara Smith

Allen Smoll
Howard Spainhour
Warren and Mary Lynn Staley
Keith Steyer
Charles and Karen Stryker
Robert and Ann Syler
Timothy and Sharon Taylor
Del and Sharon Thielman
Frank and Barbara Tillman
Charles Tillotson
Bob and Betty Tointon
Ed and Eunice Wambsganss
Frank Westerman Jr †

Phasing out duties but not commitment

Thirty-nine years. And he's not finished yet.

Phased retirement is the new name of the game for Donald Lenhert, professor of electrical and computer engineering at K-State.

"I wasn't sure I was ready to retire," Lenhert said, "and my wife hadn't told me I could."

So at the start of the fall 2004 school year, he changed his full-time teaching schedule, begun in 1966, to one class the last five weeks of the fall semester, and two classes in the spring semester. He can maintain this reduced schedule for a maximum of five years, or opt out at any time.

Another new item on his K-State agenda has been the establishment of the Dr. Donald Lenhert Electrical and Computer Engineering Scholarship. It will be awarded annually to one junior or senior, enrolled in electrical engi-

neering or computer engineering, who has demonstrated financial need.

Lenhert knows first-hand the importance of this type of scholarship.

"The assistance of Dean Durland and Assoc. Dean Potter in getting me scholarships my junior and senior years at K-State," Lenhert said, "was crucial to the completion of my bachelor's degree.

"I wanted to be able to help future students at that level whose parents couldn't afford to pay for college."



Don Lenhert

The amount of the scholarship is a key factor for Lenhert.

"Few present scholarships provide an adequate amount for a student to pay tuition, books, and room and board without having to work lots of hours outside of class," he said.

"In the past, the major scholarships I received from Boeing and Schlumberger provided essentially an amount from 650 to 1,000 times the minimum wage. I wanted my gift to be set up to pay at that level, too."

Following completion of his first electrical engineering degree in 1956, Lenhert went on to secure his master's degree from Syracuse University in 1958, and his Ph.D. from the University of New Mexico in 1966.

His major professor at UNM,

W. W. Koepsel, ended up being his link back to K-State. "He had left UNM for Duke while I was still there and then ended up as the department head of electrical engineering at K-State," Lenhert said. "He called me in 1966 and offered me a teaching position. I told him if I was not offered 10% more in salary by industry, I would give teaching a try."

Lenhert was soon after offered a job in industry in New York, but at only 9% more than K-State's bid. A teaching career was launched.

While able to use many of his summers for work in industry over the years, Lenhert calls his 1966 decision to try teaching a "good choice"—a choice that's given him an up-close view of the many changes in electrical engineering education over the decades.

"Things I'm teaching now didn't even exist when I started," he said. "Today students have calculators instead of slide rulers. And they believe whatever the calculator says rather than estimating the order of magnitude of the answer."

Computer use and computer design and simulation are also huge changes.

"Students today read less," Lenhert said. "It's really difficult to get them to read anything for an assignment. But of course they are a lot more proficient on computers."

Offering yet another example of change, Lenhert put forth a salary/technology cost comparison.

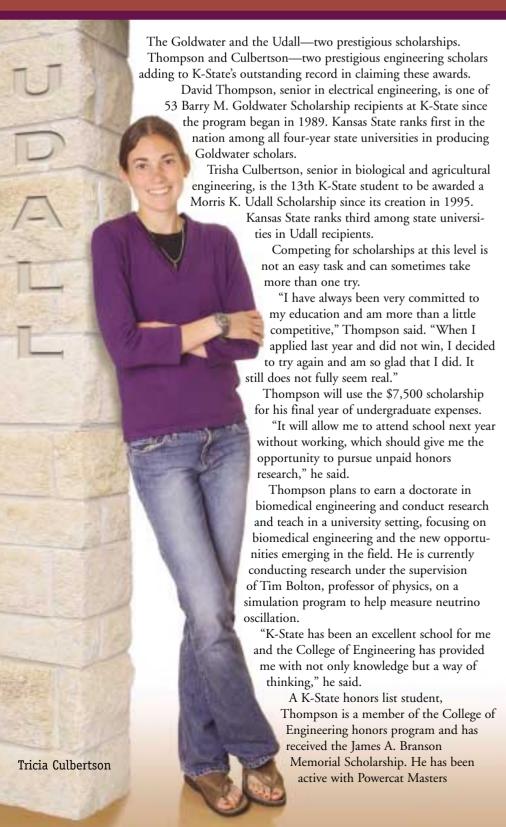
"When I graduated with my B.S. degree," he said, "the purchase of a single silicone transistor would have taken about 36% of my salary. Today a new graduate could purchase a top-of-the-line microprocessor from Intel, which contains 50 to 100 million transistors, for probably less than 36% of his or her starting salary."

With his new phased-retirement duties, Lenhert said he will miss most not having as much "interaction with the students," but he won't mind at all having "less grading to do."

He hopes to engage in more of his outside interests of travel, woodworking, and expanded duties on his wife's horse farm operation—pursuits well earned by this long-time K-Stater.

-by Mary Rankin

Culbertson and Thompson earn top scholarships





Parade, skits, and all the traditions that make Open House a much-anticipated annual event! Clockwise from top right: Tammy Felts, ARE, Steel Ring president, emcees opening activities on April 8; parade float 'beauties' from CNSM greet the crowd; young driver gets instruction from Formula One Car team; 2005 St. Pat, Kevin Huber, CNSM, and St.

Patricia, Kristi Rukavina, ARE, pose for the cameras; ARE's take-off on Monopoly, dubbed ArchEopoly, and skit emcee,
Matt Edwards, (cut-out), please attendees with their game board
antics; Assoc. Dean Richard Gallagher wields giant scissors to
officially cut the ribbon opening this year's festivities. Offering
assistance are, left to right, Asst. Dean Ray Hightower,

Tammy Felts, and Kevin Huber.













Open House Awards

- Outstanding department—CNSM
- Yellow brick—ARE
- Freshman/Sophomore display—CNSM
- Curriculum display—ARE
- Technical display—IMSE
- Limited class display—CNSM Open class display—CNSM
- St. Pat and St. Patricia

St. Pat—Kevin Huber, CNSM

St. Patricia—Kristi Rukavina, ARE

- **Engineering Banquet Awards** Advisor of the year—Prof. Larry Glasgow, ChE
- W. Leroy Culbertson Steel Ring Leadership Scholarship—Peter Clark, CE







Introducing the automated tour guide . . .

Planning for their Open House debut, Scott Rock, left, CMPEN, and Lane Roney, IE, display the Kansas State University GPS Tour Guide, their senior honors research project under the direction of Shing Chang, assoc. professor of industrial and manufacturing systems engineering. The automated tour guide utilizes a Garmin iQue 3600 PDA with an integrated GPS receiver. Users carry it along a predetermined tour route, stopping at specified locations where prerecorded audio files detail buildings and areas of campus the user is near. Targeting prospective K-State students and their families, the team has developed both walking and driving tour versions.

Rock handled all technical aspects of programming the application and interfacing the Garmin PDA. Roney designed and created the tour routes, audio recordings, and GPS coordinates. The system has the potential to be adapted and marketed worldwide to other tourist destinations, university campuses, national parks, and theme parks.

Taking flight

Another popular Open House display was LoadStar, a radio-controlled airplane designed and built by a six-member team of ME students: back row from left, Bryan Mai, Nelson Pratt (team leader), and Paul Scott; kneeling, Brandon Hagman and Robert Caplinger. Not pictured: Drew Thompson. The team later placed third in an international field of more than 30 engineering, aviation, and technology schools at the SAE Aero Design West competition, April 22-24, in Fort Worth, Texas.





Bridge team to nationals

Members of the K-State Steel Bridge Team display their handiwork at Open House. The group placed second at the Mid-Continent Regional Conference of the American Society of Civil Engineers, held in Edwardsville, Ill., March 31-April 2, qualifying them for national competition at Orlando, Fla., in late May. Each bridge is judged on weight, construction time, and deflection—how much the bridge moves when supporting weight. Hani Melhem, professor of civil engineering, is faculty advisor for the team.

Robinson named Alumni Fellow



Walter Robinson

Walter F. Robinson has been named the 2005 College of Engineering Alumni Fellow in recognition of his distinguished career. Robinson graduated from K-State in 1972 with a bachelor of science degree in computer science followed by an MBA from Xavier University in Ohio in

Robinson has spent more than 30 years in the information technology industry. He has gained extensive experience in general management, consulting, sales, and systems analysis in industrial and financial services industries. In 2003, he and his wife Thelma Fuqua established their own management consulting firm, Fuqua Robinson, Inc. Together they have participated in numerous consulting engagements for governmental agencies, financial institutions, and small technology

"Walter Robinson certainly represents someone who has been a leader and innovator in this

information technology age," said Terry King, dean of the College of Engineering. "Add to that his entrepreneurial success, and we could hardly have chosen a stronger candidate to honor as our Alumni Fellow.'

Robinson has been active in civic affairs having worked with Junior Achievement's Project Business, the United Way, the San Francisco Chamber of Commerce, the San Francisco Black Chamber of Commerce, the Urban Bankers Association, and the Commonwealth Club. He is a member of the College of Engineering Advisory Council.



Dialing for dollars

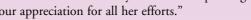
The 2005 Engineering Telefund kicked off on Sunday, Jan. 23, running through Thursday, Jan. 27. Two hundred and thirty-five student volunteers secured pledges of \$272,765 for the College of Engineering that will go towards funding scholarships and student projects. The average pledge per caller was nearly \$1100. Busy on the phones, above, Stephanie Feeley, BAE, and Ryan Fick, ARE.

DSA 2005: Marcia Schuley

Marcia R. Schuley, was presented with the College of Engineering Distinguished Service Award at commencement ceremonies May 14. Schuley will retire in June as associate director of Kansas State University Career and Employment Services, where she served as liaison to the Colleges of Engineering and Architecture, Planning, and Design.

"For many years, Dr. Schuley has given generously of her time and expertise in working with students in the College of Engineering," said Richard Gallagher, associate dean. "She has cultivated excellent industry relationships, coordinated successful career fairs, assisted students in polishing and developing their resumes, and in general helped our students and graduates obtain professional employment.

"This award is one way we have of expressing our appreciation for all her efforts."





Marcia Schuley

Since 1990, Schuley played a key role in advising and job placement for students and alumni, while interacting with faculty and employers for job development and enhanced university relations. She was instrumental in developing and guiding the All-University Career Fair, often noted as one of the largest and finest career fair events among Big XII schools. Schuley initiated the center's Web site, one of the first of its kind, establishing format and writing content.

"I am surprised and honored by this award," Schuley said, "and I certainly owe a big 'thank you' to the College of Engineering for all their support. I'll always remember things like former Dean Rathbone sponsoring the Job-a-thons in the early 1990s to boost our hirings. Over the years, whatever I suggested might be of help in securing jobs or helping to train students—the college and departments were right there to help.

"That made my work so much easier. It's tough to say goodbye. I'd like to remind graduates from 1990 to the present that my e-mail will remain mrss@ksu.edu, and I would welcome any news regarding their career paths."

Schuley's prior professional appointments included serving as director of the Older Kansas Employment Program and as a specialist in consultation and education at Pawnee Mental Health Services, both in Manhattan. On the K-State campus, she also held positions in the Center for Student Development, Department of Administration and Foundation, and the Non-Traditional Study Program. She earned three degrees from Kansas State, a B.A. in English; an M.S. in education, guidance, and counseling; and a Ph.D. in education, counseling, and student personnel.

-by Mary Rankin

Finding life on Mars

continued from page 1



before more elaborate missions such as subsurface drilling for past or present life are done.

His team's research and development should be completed in 2007, and the earliest possible launch date for science payloads using the micro transceiver is 2011. Kuhn said his electrical engineering graduate students-Yogesh Tugnawat, Mark Hartter, Kai Wai Wong, and Xin He—are also key players in the project.

Kuhn has been with K-State since 1996. He received his B.S. degree in electrical engineering from Virginia Polytechnic Institute and State University in 1979, and his M.S. in the same discipline from the Georgia Institute of Technology in 1982. After working for 10 years at the Georgia Tech Research Institute in Atlanta, Ga., and 1 1/2 years at the Ford Aerospace and Communications Corporation in Palo Alto, Calif., Kuhn earned his doctorate in electrical engineering from Virginia Tech in 1995.

Highest ranking military officer to speak



Gen. Richard Myers

Richard B. Myers served as commencement speaker for the College of Engineering at ceremonies May 14. As chairman of the Joint Chiefs of Staff, he is the nation's highest ranking military official and principal military advisor to the President, Secretary of Defense, and National Security Council.

"It was certainly and honor and privilege for our graduation audience to hear from Gen. Myers," said Terry King, dean of the College of Engineering. "I have always appreciated his willingness to return to his alma mater and spend time with our students, faculty, alumni, and friends."

Myers entered the Air Force in 1965 through the K-State ROTC program and is a command pilot with more than 4,100 hours flying, including 600 combat hours during the war in Vietnam. Among his career highlights, he has served as vice chairman of the Joint

Chiefs of Staff; commander in chief, North American Aerospace Defense Command and U.S. Space Command; commander, Pacific Air Forces; and commander of

Myers graduated from Kansas State in 1965 with a B.S. in mechanical engineering. He later completed an MBA from Auburn University. He is a member of the K-State College of Engineering Hall of Fame and was named Alumni Fellow in 1990.

Company/Leader of the Year



Cliff Pemble

Garmin International, Inc., Olathe, Kansas, was named 2005 Company of the Year at the Tau Beta Pi Spring Banquet, April 26. Cliff Pemble, director of engineering at Garmin, was named 2005 Leader of the Year at the same event.

Garmin International is a member of the Garmin Ltd. Group of companies that designs, manufactures, and markets navigation and communications equipment for aviation and consumer markets.

Pemble leads engineering and new product development for the Garmin group of companies. He holds bachelor's degrees in both mathematics and computer science from MidAmerica Nazerine University. Before assuming his current position in 2002, he had served the company as software engineering manager and as a software engineer.

"Tau Beta Pi bestows this honor annually to a

company committed to high standards and quality performance in the engineering profession," said Dick Hayter, assoc. dean and Tau Beta Pi chief advisor. "Garmin certainly meets that criteria."

Leader of the Year reflects an individual whose leadership exemplifies the traits K-State engineering wants to instill in its students.

"Cliff Pemble serves as a strong role model for our students as well," Hayter said.

-by Amber Haag, K-State Media Relations and Marketing



1950

Eugene Fieldhammer (CE) was honored on the occasion of his 80th birthday, Feb. 15, 2005, with a contribution in his name to the International Association for the Exchange of Students for Technical Experience Fund. His three children and their spouses who made the gift are Keith and Susan Fieldhammer, Michael and MaryLyn Fieldhammer, and Hilary and Gary Welsh.

1987

Sanjay Gattani (CE, MS) (PhD '93) has been promoted to a manager's position in structures technology at the Wichita Boeing plant, responsible for managing the 737-900X airplane program on the structures and certification side for the fuselage. He and his wife, Renu, have two daughters, Sonali and Mansi.

1992

Paul Snider (ME) and his wife, Beth, announce the birth of their second child, Avery Ruth, Oct. 4, 2004. Paul is the integration and test manager for commercial spacecraft operations at Ball Aerospace & Technologies Corp., Boulder, Colo.

1997

Thomas Madison (ME), Wichita, a lead production support engineer at Cessna Aircraft Company, and Kit-Yee Madison announce the birth of their son, Samuel Adam Tzi-Lum, Oct. 7, 2004. He joins his sister, Catherine.

1999

Wendy (Krotz) Macoubrie (ARE), Olathe, and her husband, Jeff (BusAdmin '98), announce the birth of their daughter, Sara Kaitlyn, Sept. 14, 2004.

Deaths

1937

Elmer H. Kloepper (AGE), Hastings, Neb., died Dec. 20, 2004, at the age of 94. He worked for John Deere and was later a small business owner. He is survived by his wife, Margaret, and three children.

1958

Marion E. Oliver (EE) died Feb. 11, 2005, in Colorado Springs, Colo. He spent much of his career at The Johns Hopkins University Applied Physics Laboratory in Laurel, Md., where he was engaged in defense-related work, principally with the Navy, and jointly with the Missile Defense Agency in Colorado Springs in later years. He was named Kansas State University Engineer of the Year in 1987. He is survived by his wife, Jane, son, Scott, and three grandchildren. He was preceded in death by a daughter, Traci.

Robert L. Baetz (EE), Branson, Mo., died Oct. 3, 2004. Past employment included serving as a design consultant for Wilson & Company Engineers and Architects, and as a manufacturing engineer for Westinghouse Lamp Plant, both Salina. He retired from the North American Philips Lighting Corp. in 1991. He is survived by his wife, Margaret, three daughters, and six grandchildren.

1961

Donald A. Kocher (CE) died July 3, 2004, in Lady Lake, Fla. He had a 39-year career with Black & Veatch Consulting Co. He is survived by his wife, Patricia.

Norman "Norm" Dillman, professor of electrical and computer engineering,

of electrical and computer engineering, has retired after 15 years with the College of Engineering. He was associated with the Advanced Manufacturing Institute and the Manufacturing Learning Center during much of his time at K-State.

Norman Dillman

Dillman

to retire

Dillman had been a faculty advisor to the K-State Solar Car Racing Team since its inception in 1995. He and his wife, Phyllis, participated in each of the team's cross-country races. He was also faculty advisor to the K-State Society of Hispanic Professional Engineers and the K-State Amateur Radio Club.

Dillman earned three electrical engineering degrees from Iowa State University—B.S. 1960, M.S. 1962, and Ph.D. 1965. He spent 10 years on the electrical engineering faculty at the University of Missouri at Rolla, and from 1974 to1990 was a design engineer and engineering manager at Hewlett Packard. He holds six patents for his inventions and is a registered professional engineer in Colorado. A Senior Life Member of the Institute of Electrical and Electronics Engineers, Dillman served as an accreditation visitor for ABET for 15 years.

Jolls presents fourth Eyestone Lecture

An expert on an expert was the theme of the College of Engineering Eyestone Lecture Series held April 14 in the Fiedler Hall Auditorium.

Kenneth R. Jolls, chemical engineering professor at Iowa State University, presented "Engineering, Entropy, and Art: A Tour Through the Thermodynamics of J. Willard Gibbs."

Considered an expert on J. Willard Gibbs, Jolls was recently called in as a consultant by the U.S. Postal Service for its 2005 stamp series, "American Scientists." Gibbs, widely acknowledged for developing modern thermodynamic analysis, will be honored as one of the four scientists in the series. This will be the first time the Postal Service has recognized American science with a separate pane of stamps.

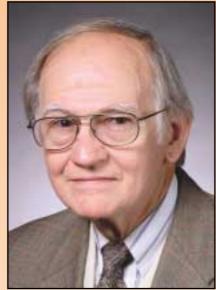
Jolls will take part in the "First Day of Issuance Ceremony" at Yale University later this year, a notable event connected with the "Scientists" stamp series. He will be the featured speaker on Gibbs, and will share the platform with the U.S. Director of the Office of Science and Technology, physicist and President Bush appointee, John H. Marburger III.

Jolls holds three degrees in chemical engineering—B.S., North Carolina State University, and M.S. and Ph.D., University of Illinois. His research interests include the use of high-performance computer graphics for scientific visualiza-

tion.
Listing
his avocation
as "part-time
professional
musician,"
Jolls' first

degree, from Duke University in 1958, was in music. He is a jazz vibraphone player with experience in arranging, conducting and performing.

While in Manhattan, he also played a jam session at The Bluestem Bistro in Aggieville, Friday evening, April 15. Joining him in the



Kenneth Jolls

jazz performance were Wayne Goins, K-State jazz instructor, and members of the K-State student jazz combo.

The Eyestone Lecture Series, established in 2000, is funded by an endowment of the late Fred and Mona Eyestone.

Make plans now to attend the

Seaton Society

Banquet

& Festivities

November 5, 2005



IMPACT is published twice a year by the Kansas State University College of Engineering, Manhattan, KS 66506-2588. It is available on the World Wide Web at www.engg.ksu.edu.

Issue No. 14 Spring 2005

Editor
Mary Rankin
Art director
Rich Gardner
Graphic designer
Bob Davis
Photographers
Dan Donnert
Bob Davis
Al Rankin

Reep Connected

Take a few minutes to jot down job changes, births, deaths, professional or other activities, your retirement, or remembrances you'd like to share. Send your news to *Impact* by mail, e-mail, or fax, as listed to the right.

Want your classmates to contact you? Check the appropriate box and we will include your address with your news. You must indicate that you want this information printed.

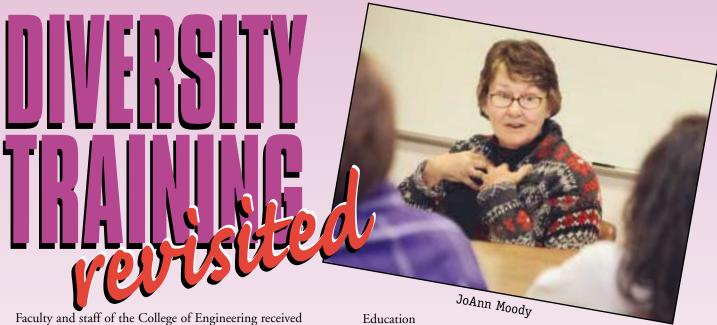
Please select and list only one type of contact information for publication.

🖵 Mail	Phone	☐ E-mail
-	Name	
	Major/Class ye	ar
	Address	
	Address	
	Phone	
	- 11	

News for Impact

Send to:

IMPACT Editor
Engineering Communications
Kansas State University
133 Ward Hall
Manhattan, KS 66506-2508
or e-mail: impact@engg.ksu.edu
or FAX: 785-532-6952



Faculty and staff of the College of Engineering received hands-on diversity training from nationally renowned facilitator JoAnn Moody during three days of diversity training workshops March 2–4.

Moody, a consultant to majority colleges and universities on recruitment, mentorship, and retention of under-represented minority and women students and faculty, was actually making a return visit to the college, as she had spent several days last spring consulting with engineering faculty and staff leaders and student leaders, as well as university officials.

"This spring, we entered the 'next level' of diversity training," said Richard Gallagher, associate dean for academics and administration for the college. "We focused more on each department, reaching as many faculty and staff members as possible with Dr. Moody's expertise."

Founding director of the Northeast Consortium for Faculty Diversity, Moody's clientele include the universities of Wisconsin-Madison, Vermont, Massachusetts, and Southern California; Rensselaer Polytechnic Institute, Rutgers University, and Mount Holyoke, and Smith colleges; and the Nellie Mae

Foundation and U.S. Health and Human Services.

"I believe the majority male faculty are best situated to reduce stereotype threat for women and non-immigrant minorities," Moody said. "Concomitantly, these faculty are best situated to increase the number of women and non-immigrant minorities who aspire to succeed in the fields of science, technology, engineering, and mathematics. Through my consulting and 'coaching,' I try to help majority male power-holders understand why and how they can do these two tasks."

Moody holds a J.D. from Northeastern University Law School, a Ph.D. in English Literature from the University of Minnesota, and a B.A. in English from the College of William and Mary. In March 2005 she will publish the monograph, "Rising Above Cognitive Errors: Guidelines for Search, Tenure Review, and Other Evaluation Committees." Her book-in-progress, "Student Diversity: Problems and Solutions," is now under consideration for publication.

-by Mary Rankin



College of Engineering Kansas State University 1046 Rathbone Hall Manhattan, KS 66506-5201