

Impact

Spring 2006

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Alumni Fellow

ChE Prof. Jim Edgar
and ChE graduate
student Li Du
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Taking on the 'flat world'

In the 10 years since her graduation from Kansas State with dual bachelor degrees in electrical engineering and physics, Michelle Munson has been a software engineer for IBM, completed a master's degree in computer science from the University of Cambridge on a Fulbright Scholarship, and worked as a software engineer in research and start-up companies. In 2003 she co-founded her own company, Aspera, Inc., creating a new high-speed transfer technology and thus becoming a recognized market leader for high-performance file transfer.

This year she was named the College of Engineering Alumni Fellow—the youngest graduate ever to receive this designation. Joining the College of Engineering Advisory Council (COEAC) in fall 2005, she is also the youngest person to ever serve on this board.

"It's not about her age," said Terry King, dean of the College of Engineering, "but about recognition of an entrepreneur with an outstanding record of accomplishment. Michelle, in her capacity on the COEAC in particular, has the ability to help us create an environment where more of our students are inspired to become entrepreneurs."

Munson said she didn't always know she had an entrepreneurial spirit, but once she "found it," she knew it was "right."

"I always thought of an entrepreneur as a business person," she said. "But I discovered that in technology, an entrepreneur is an innovator—a person who applies science and technology to solve a significant problem while operating under a sense of urgency."

Munson and her Aspera colleague and co-founder Serban Simu put in many hours in their drive for success.

"Time spent in the lab getting our software to work and dealing with customer deployments is very similar to the hours I spent as a student doing homework and projects," she said. "We're constantly facing challenging situations that stretch our problem-solving skills and mental and physical stamina."

A native of rural Junction City, Munson said she was raised with a Kansas or Midwest work ethic, and her undergraduate experience at K-State strengthened that characteristic.

"The fundamentals of engineering taught at Kansas State are extremely solid," she said. "The challenging curriculum I encountered here set the tone for my professional career."

"The day-in and day-out productive discipline that was required is the hallmark of an engineering education. It was an exposure to something larger than any one individual and it instills humility," Munson said.

Her time at K-State also set her path on a life of research.

"K-State is unique in that students are oriented towards classical research and interdisciplinary research. I was encouraged early on to develop an instinct for problem solving, often applying ideas across technical disciplines," she said.

As part of her two-day visit to campus in February for Alumni Fellow activities, Munson spoke to the Freshman Honors Seminar.

"This was the very class that had inspired me as a freshman in engineering," Munson said. She titled her presentation "Getting there—choices and advice from the gal who was you."

She told students the engineering curriculum can be difficult and the business world can be difficult, but hard work will reap great rewards. Engineering, she said, had offered the best opportunity to impact society.

Munson captured her audience's attention with her story of Aspera and its data transfer applications growing from a "garage" operation to serving a variety of customers and industries on six continents.

Ears perked up as she described how Aspera products had powered international transfers of digital media for Universal Studios in the making of "King Kong," news gathering for MSNBC

and NBC Nightly News, contributions of video content to the Apple iTunes Music Store, and the Canadian Broadcasting Corporation's coverage of the Torino Olympics. No less impressive was her list of other clients—Warner Brothers Studios, NBC-Universal, Time/Warner Cable, U.S. Army Intelligence and Security Command, NASA, Honda, Honeywell, and Johnson & Johnson.

"I was inspired to hear advice from someone who had gone through the program here and who had become so successful," said Ashleigh Steckly, freshman in biological and agricultural engineering.

"Michelle Munson was excited and energized about the engineering profession," said Paul Wicoff, freshman in architectural engineering. "She's found so much success in her career, and it made me realize that I could find myself in a similar place someday."

Addressing the future facing today's engineering students in what is often referred to as the "flat world" where Western culture will no longer be the only dominant force, Munson said multicultural collaborations have been very much the norm in her career.

"Right now at Aspera, we have people from Ghana, Africa; Bucharest, Romania; Nanking, China; New Delhi, India; Madison, S.D.; Manhattan, Kan.; Houston, Texas; Chicago, Ill.; and Kansas City, Mo.

"Engineering is an integrated community," she said. "Despite our highly varied backgrounds, we come together around a common love of problem solving and innovation, speaking the common language of science and technology. This is the tremendously positive side of 'globalization' that people often forget."

Concern exists that today's educational institutions in the U.S. may be losing some of their rigor, concentrating on making students feel good rather than challenging them.

"Society has somewhat lost its grip on education fundamentals," Munson said. "We ask, 'Are students suffering?' when we should be asking, 'Are students developing?'"

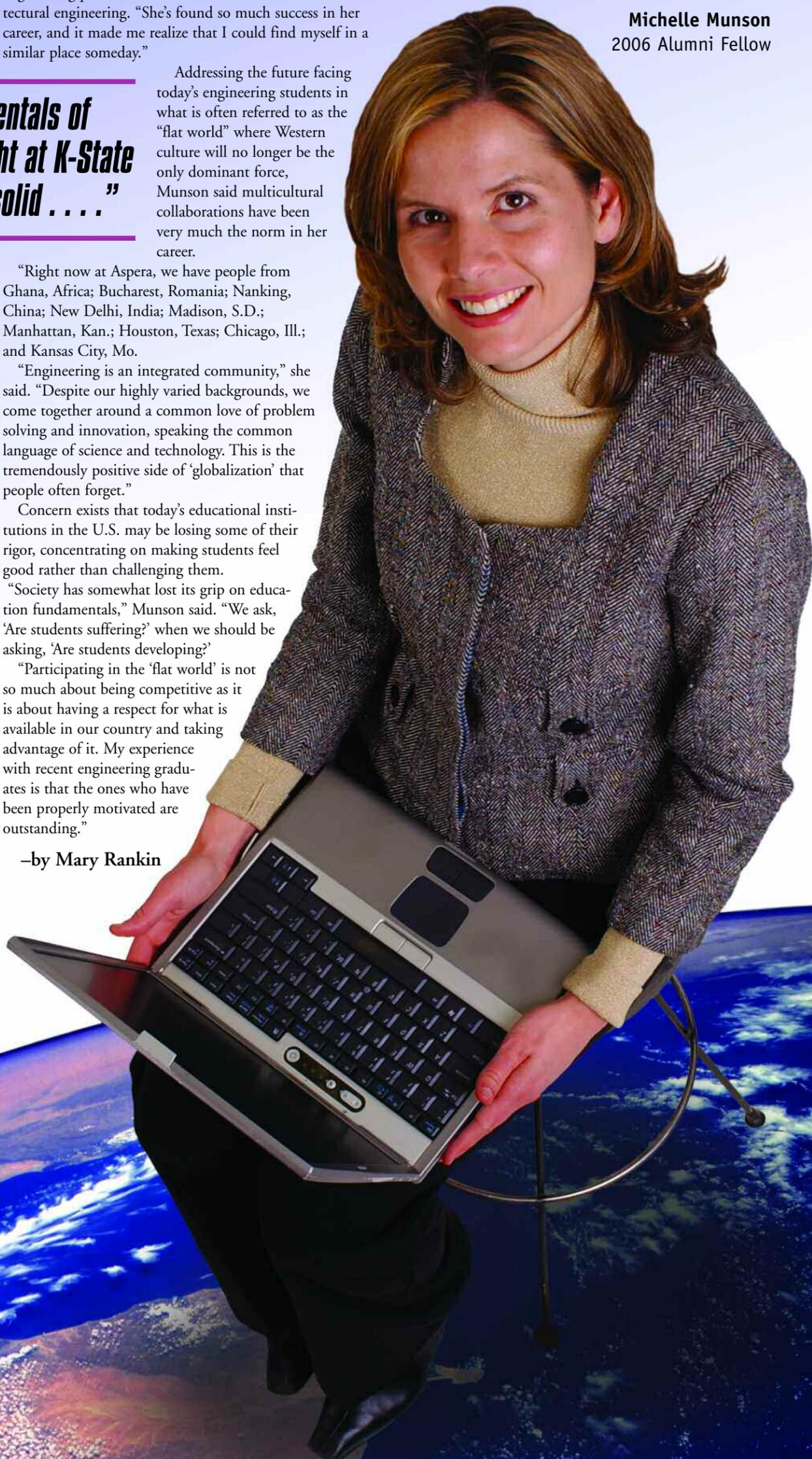
"Participating in the 'flat world' is not so much about being competitive as it is about having a respect for what is available in our country and taking advantage of it. My experience with recent engineering graduates is that the ones who have been properly motivated are outstanding."

—by Mary Rankin

Impact

Spring 2006

Michelle Munson
2006 Alumni Fellow



Message from the Dean



As many of you by now have heard, I have accepted the appointment of Provost and Vice President for Academic Affairs at Ball State University in Muncie, Indiana, effective July 1, 2006. My duties at K-State will come to a close at the end of June.

Standard questions often come to the forefront at times like this: What will I miss the most? What are the

new challenges ahead? What do I see as my legacy as I leave Kansas State?

Let's start with the last item. Though I would never presume to call this "my" legacy, a total team effort has brought numerous accomplishments in the college over the past nine years, and I'm proud to list some these:

- Final funding and building of Fiedler Hall completed
- West Seaton Hall renovated
- Renovation of front plaza and Rathbone Hall lobby begun
- \$75 million target in Changing Lives capital campaign completed
- Research expenditures per year doubled
- Endowment dollars tripled
- Endowed chairs and professorships increased by 300%
- Endowed scholarships increased by 100%
- Partnership with NACME (\$285,000 in scholarships over five years for MEP students) established
- Seaton Society founded
- Professional Progress Awards (PPA) established
- Project LEA/RN™ initiated
- Women in Engineering and Science Program (WESP) established

- Eyestone Lecture series established
- Leadership team structure established
- Departmental advisory councils promoted
- Faculty hiring incentives for women and minorities developed
- College scholarship program restructured to support university scholarship program
- Mission and vision statements, and core values developed
- Nuclear engineering program revived
- Two successful ABET accreditation reviews for all undergraduate programs completed
- Focus on legislative area, resulting in a National Transportation Center and regular visits to our facilities from the national Congressional delegation

I will miss seeing the college move ahead in these achievements, as well as with the new initiatives and ideas that will come from new leadership. Provost Duane Nellis has convened a small committee, chaired by the department head of chemical engineering, Mary Rezac, to begin the process of selecting an interim dean. I think this will provide a smooth transition. There is tremendous potential here with the quality of students and faculty we have.

Yes, there will be different challenges ahead for me at Ball State, yet they will be the same in many ways. Higher education in the U.S. is a precious treasure for those of us blessed to work in it, and I will strive to see its cause advanced whether here at K-State or at any other university. The support and loyalty of faculty and staff, students, alumni, and friends have made my tenure here as dean a profound experience for which I'll always be grateful.

Terry S. King
Terry S. King, Dean

Two lectures highlight spring series

The College of Engineering Eyestone Lecture Series was honored to host two prestigious speakers this spring. Established in 2000, the series is funded by an endowment of the late Fred, EE '41, and Mona Eyestone and is designed to bring innovators in engineering and the applied sciences to campus.

George O. Strawn

George O. Strawn, chief information officer of the National Science Foundation (NSF), delivered the address, "Change: The Constant of Modern Times," March 7, in Fiedler Hall Auditorium.

Strawn offered personal insight on the past and future of electric information technology and suggested that if "modern times" is defined as the last 200 years, there has been more change in modern times than in the previous 5000 years.

As NSF's chief information officer, Strawn guides the agency in development and design of innovative information technology. Since joining NSF in 1991, Strawn has served in numerous roles including directorate for computer and information science and engineering, executive officer, and acting assistant director. From 1995 through 1998 he was director of the division of advanced networking infrastructure and research where he led efforts in the Presidential Next-Generation Internet Initiative, which created the first national high-performance network test bed.

Strawn was also a computer science faculty member at Iowa State University where he served as director of the computation center, and from 1983 to 1986 served as chair of the computer science department. Under his leadership, the program was among the first in the nation to be accredited by the Computer Science Accreditation Board.

He holds a Ph.D. in mathematics from Iowa State University and an undergraduate degree from Cornell College.



George O. Strawn

John Brooks Slaughter

John Brooks Slaughter, president and chief executive officer of the National Action Council for Minorities in Engineering (NACME), Inc., presented "Engineers for Tomorrow: An Imperative for America" April 27, in Fiedler Hall Auditorium.

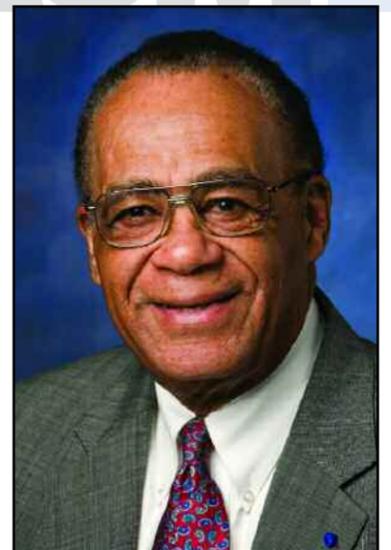
According to Slaughter, a 1956 K-State graduate in electrical engineering, America has found itself losing its leadership position in innovation and technology. In order to regain and retain its place as the global leader in research and development, it must produce more individuals skilled in engineering and science disciplines, rather than placing such a heavy dependence upon importing scientific and engineering talent and exporting technical jobs.

"America must recognize and develop the potential that resides in those groups that have been historically underrepresented in the science and engineering professions. Failure to do so will negate national efforts to strengthen innovation and restore technological competitiveness," Slaughter said.

A former director of the National Science Foundation, president of Occidental College in Los Angeles, and chancellor at the University of Maryland, College Park, Slaughter has a long and distinguished background as a leader in the education, engineering, and scientific communities.

Slaughter began his professional career as an electronics engineer at General Dynamics. He has been director of the Applied Physics Laboratory and professor of electrical engineering at the University of Washington, academic vice president and provost at Washington State University, and most recently The Irving R. Melbo Professor of Leadership in Education at the University of Southern California. He has served as president and CEO of NACME since August 2000.

Slaughter earned a Ph.D. in engineering science from the University of California, San Diego; and an M.S. in engineering from the University of California, Los Angeles. He holds honorary degrees from more than 25 institutions. Winner of the Martin Luther King, Jr. National Award in 1997 and UCLA's Medal of Excellence in 1989, Slaughter was also honored with the first "U.S. Black Engineer of the Year" award in 1987 and the Arthur M. Bueche Award from the National Academy of Engineering in 2004.



John Brooks Slaughter

The hottest spot on campus

cover story



Jim Edgar

If asked to name the “hottest spot” on the K-State campus, responders might suggest the Union, Bramlage Coliseum, or even the more literal idea of the power plant and steam tunnels.

But according to chemical engineering professor Jim Edgar, that claim to fame is located at his research facility in Durland Hall.

“I’ve thought about putting a label on my laboratory door:

‘The hottest spot on campus,’” Edgar said, “as we reach temperatures of 2000°C in our research furnace—hot enough to melt most metals such as iron and nickel, and hot enough to boil lead.”

The goal of Edgar’s research project is to develop methods of making large, single crystals of aluminum nitride to be used as the substrate for better, more efficient electronic and optoelectronic devices. Such substrates will provide mechanical support as well as serve as a template for producing other single-crystal layers such as gallium nitride.

“Over the past 20 years,” Edgar said, “gallium nitride has evolved from a research laboratory curiosity to one of the world’s most important semiconductors. In the early nineties, a series of breakthroughs made gallium nitride devices practical for the first time, and now gallium nitride-based blue and white light-emitting diodes (LEDs) have become very commonplace, pre-

sent in traffic lights, cellular telephones, automobiles, and many types of displays.”

Optoelectronic devices either produce light from electricity as in LEDs or laser diodes (LDs), or sense light and convert it to an electrical signal. Physical and chemical properties of the aluminum nitride crystals Edgar is developing are better matched to the single-crystal layers that compose the devices than other currently used materials.

“With my substrates,” he said, “the layers will have fewer defects, less stress, and better purity. This in turn improves the device efficiency, such as more light per watt of electricity, and allows more powerful devices to be built.

“LEDs have so greatly improved,” Edgar said, “that the goal of solid-state lighting for general illumination is rapidly becoming a reality. The lifetime of LEDs is 20 times longer than incandescent lights, and another advantage is that they consume a lot less energy. Most traffic lights now employ LEDs instead of incandescent lights,

because they are ultimately less expensive even though initial costs are higher.”

While red LEDs have been around for decades and blue LEDs for about 10 years, ultraviolet (UV) LEDs have proven difficult to fabricate.

“The aluminum nitride crystals we are developing,” Edgar said, “should help. UV

LEDs and UV LDs would have several applications such as bio/chemical reagent detection, DNA sequencing, sterilizing plastics and other materials without heat, sterilizing water, etc. The military is even interested in their use for developing sensors for airborne missile-launch warnings.”

Besides UV LEDs, the other main application for alu-

“ . . . gallium nitride has evolved from a research laboratory curiosity to one of the world’s most important semiconductors.”



Interior, close-up view of research furnace in Edgar’s chemical engineering lab.

minum nitride single crystals is high-power, high-frequency electronics. Combined with the related compound gallium nitride, devices can be made that can handle much higher power more quickly than silicon-based devices.

Edgar, who holds a Ph.D. in chemical engineering from the University of Florida, is currently funded in his research by the National Science Foundation and the U.S. Air Force, as well as having received past support from The Office of Naval Research.

He has been working on various aspects of aluminum nitride crystal growth since 1997 and currently has five chemical engineering graduate students working on this project.

“Interest in aluminum nitride as a substrate has really increased in the past two years,” Edgar said. “Even though it is already the basis for multi-billion dollar industries, only the surface has been scratched for potential applications of gallium nitride-based devices.

“Further improvements in the crystal perfection, reductions in residual impurity and defect concentrations, and better control of the composition and structure will lead to new types of sensors based on the unique chemical, mechanical, and optical properties of gallium nitride and its alloys.”

—by Mary Rankin



NACME scholar numbers grow

“The National Action Council for Minorities in Engineering (NACME) scholarships provide direct financial support to 20% of K-State students enrolled in the Multicultural Engineering Program (MEP),” said LaVerne Bitsie-Baldwin, MEP director (above, center, surrounded by 10 of the 23 current NACME scholars). “These students, in turn, support activities designed for all multicultural students in the college, effecting positive change throughout the program.”

Established through a partnership with NACME in 2004, there are two types of scholars—associate, five in 2005–06, supported by the College of Engineering at \$4,500 a year with a \$2,000 bonus as freshmen to encourage study focus instead of working; and block grant supported by funds from NACME at \$2,500 a year, 18 in 2005–06. These designated scholars have the opportunity to participate in NACME internship and job placement programs, as well as access to electronic forums discussing issues pertinent to minorities in engineering. NACME is the nation’s largest private source of engineering scholarships for African-Americans, Latinos, and Native Americans.

Congressional visit



U.S. Congressman Jim Ryun, R-Kan., left, discusses ongoing research efforts in the nuclear reactor area with Dean Terry King, right, during a visit to the College of Engineering on March 3. The tour emphasized ongoing projects in the nuclear and chemical engineering programs that deal with national security and energy production and conservation efforts.

“The significance of making K-State’s work visible on the national level is an important task,” King said.

Academic excellence

Jonathan King, junior in chemical engineering, is the most recent College of Engineering recipient of the prestigious Goldwater Scholarship. Goldwater Scholars are selected on the basis of academic merit from a field of 1,081 mathematics, science, and engineering students nominated by the faculties of colleges and universities nationwide. The award provides up to \$7,500 annually for a student's final one or two years of undergraduate studies.

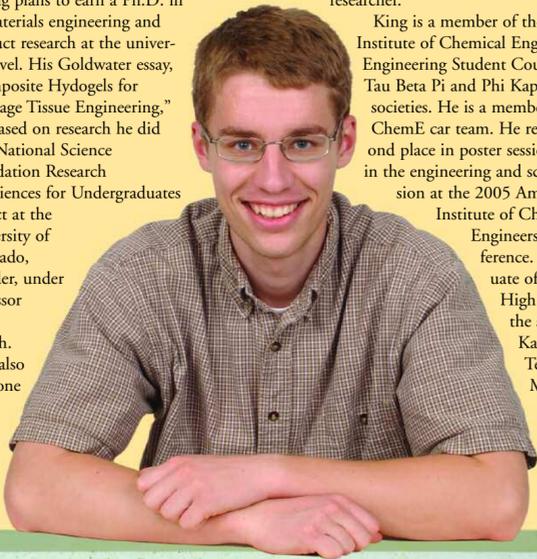
"I'm happy to be recognized for the effort I have put forth in my classes and research," King said, "and I will use the money to pay for tuition, and room and board next year."

King plans to earn a Ph.D. in biomaterials engineering and conduct research at the university level. His Goldwater essay, "Composite Hydrogels for Cartilage Tissue Engineering," was based on research he did on a National Science Foundation Research Experiences for Undergraduates project at the University of Colorado, Boulder, under Professor Kristi Anseth. King also has done

undergraduate research at K-State under Keith Hohn, associate professor of chemical engineering. King studied "modeling the lifetime of a chemiluminescent reaction on reactive nanoparticle pellets." This past semester he has begun research under Jennifer Anthony, assistant professor of chemical engineering, on "investigating the effects of solvents on the synthesis of molecular sieves."

"I think the part of my education at KSU that helped me the most was getting involved in research early in my academic career," King said. "This experience helped prepare me to compete for this scholarship and also will prepare me for graduate school and a career as a researcher."

King is a member of the American Institute of Chemical Engineers, Engineering Student Council, and Tau Beta Pi and Phi Kappa Phi honor societies. He is a member of the ChemE car team. He received a second place in poster session materials in the engineering and sciences division at the 2005 American Institute of Chemical Engineers student conference. A 2003 graduate of Manhattan High School, he is the son of Kathleen and Terry King, Manhattan.



Goldwater

Jonathan King

Matt Woerman, senior in mechanical engineering, natural resources and environmental sciences, is among 80 national winners of the \$5,000 Morris K. Udall Scholarship. The merit-based congressional scholarship honors Udall, a former congressman from Arizona, for his legacy of public service.

"It is truly an honor to be selected as a recipient of this prestigious award," Woerman said. "I am thrilled to be considered a part of this group of scholars who have dedicated their careers to protecting our world."

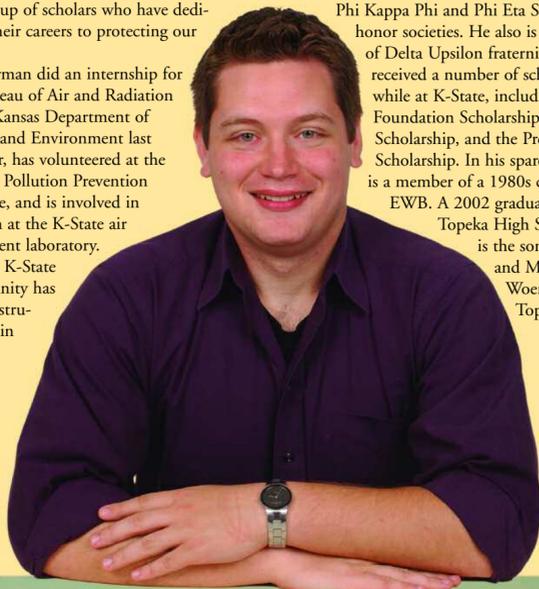
Woerman did an internship for the Bureau of Air and Radiation at the Kansas Department of Health and Environment last summer, has volunteered at the K-State Pollution Prevention Institute, and is involved in research at the K-State air movement laboratory.

"The K-State community has been instrumental in

helping me receive this award," he said. "The engineering faculty have allowed me to see new ways to apply my engineering education in the field of environmental protection, and they have also given me the opportunity to further explore this subject through research."

Woerman is active in the Student Governing Association and Kansas State University Student Foundation. He is a member of Blue Key Senior Honor Society, and Phi Kappa Phi and Phi Eta Sigma honor societies. He also is a member of Delta Upsilon fraternity. He has received a number of scholarships while at K-State, including the Foundation Scholarship, Byrd Scholarship, and the Presidential Scholarship. In his spare time, he is a member of a 1980s cover band, EWB. A 2002 graduate of

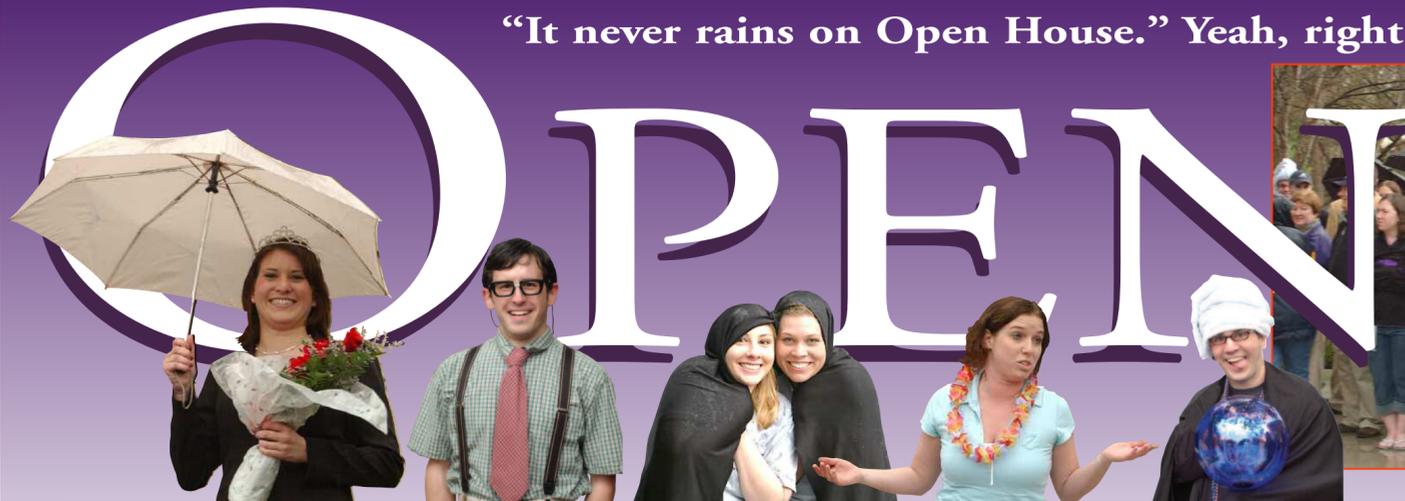
Topeka High School, he is the son of Neil and Melodie Woerman, Topeka.



Udall

Matt Woerman

"It never rains on Open House." Yeah, right.



HOUSE



Scenes from the 84th Annual K-State Engineering Open House—"Engineering: The Path of Innovation," April 7-8, 2006 (clockwise from left): EECE to the rescue on an ATV; St. Patricia, Lisa Kitten, ME and St. Pat, Roland Craddolph, CompSci; faces from the parade, skit, and opening ceremonies; Willie the Wildcat opens an umbrella against the rain; candidates for St. Pat and St. Patricia await their turn in the program; young and old enjoyed the challenge of CIS interactive dodgeball computer game on display in Fiedler Library; high school visitor studies BAE award-winning quarter-scale tractor; yellow brick awarded to IMSE for best skit/parade entry.

2006 Open House Awards

- Outstanding department—**ARE**
- Yellow brick—**IMSE**
- Freshman/Sophomore display—**ARE**
- Curriculum display—**ARE**
- Technical display—**ChE**
- Limited class display—**ARE**
- Open class display—**ARE**

St. Pat and St. Patricia

- St. Pat—**Roland Craddolph, CompSci**
- St. Patricia—**Lisa Kitten, ME**

Engineering Banquet Awards

- Clair A. Mauch Steel Ring Advisor of the Year—**Asst. Prof. Sutton Stephens, ARE/CNS**
- W. Leroy Culbertson Steel Ring Leadership Scholarship—**Patricia Geist, IMSE**



(above, left to right) EECE Superheros skit; CE tackles traffic situation in Yellow Brick entry; BAE cave dwellers 'whoop it up'; off on a cruise ship with IMSE; solar car team's latest vehicle, Paragon, a popular stop in Fiedler Atrium.

Logan deployed for Iraq War

Tom Logan has a dual career—assistant professor of architectural engineering and construction science at K-State, and Executive Officer of the Naval Mobile Construction Battalion 25.



Tom Logan

And for the first time in his 30-year career in the Naval Reserves, Logan was deployed for active duty this past January. He was called as part of a reserve Seabee regiment that for the first time in the global war on terrorism had been scheduled to relieve its active-duty counterpart.

Following readiness training at Naval Base Ventura County, Logan and his unit left Port Hueneme, Calif., for western Iraq in March. While there, the reserve regiment will provide construction engineering support to the 1st Marine Expeditionary Force, managing joint coalition construction assets over an area about the size of California.

Logan will be gone for at least nine months and perhaps up to two years.

But Dave Fritchen, department head of ARE/CNS, said members of his faculty had “stepped up to the task” and were managing to cover Logan’s classes and advising duties until his return.

“I believe Tom is likely the only faculty member on cam-

pus that is now serving his country in this capacity,” Fritchen said. “Our department is very proud of him and we are willing to pick up the load to support him. The construction and engineering experience Tom is getting in Iraq will bring some interesting discussions to his classes when he returns.”

Gallagher named Advisor of the Year

The K-State Office of Student Activities and Services joined the Blue Key Honor Society in recognizing Richard Gallagher, associate dean and



Rich Gallagher

professor of engineering, as the 2005-06 Student Organization Advisor of the Year.

Gallagher, advisor to the Engineering Student Council, was one of 15 advisors nominated by student members. He received the award Jan. 31 at the Blue Key Recognition Ceremony.

“Dr. Gallagher has accomplished the difficult task of finding a perfect balance between involvement and interference,” said Lisa Kitten, senior in mechanical engineering and president of Engineering Student Council. “His commitment to being an advisor rather than a group leader helps create an open atmosphere in our meetings where students feel free to

express opinions, share ideas, or ask questions without being intimidated by his presence.

“Student organizations across the campus are blessed with great advisors,” she said, “but I cannot imagine a better one than Dr. Gallagher.”

2006 Company/Leader of the Year

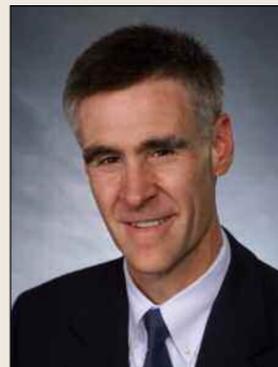
GE Johnson Construction Co. was named 2006 Company of the Year at the Tau Beta Pi Spring Banquet, April 27. James M. Johnson, 1984 K-State graduate in construction science and president and CEO of the company, was named 2006 Leader of the Year at the same event.

Established in 1967 by Gil Johnson who turned management of the company over to his son James in 1997, the GE Johnson Construction Co. provides construction management and general contractor services. Headquartered in Colorado Springs, Colo., with offices in Denver, GE Johnson specializes in healthcare, educational, corporate headquarters, resort village, justice facility, light manufacturing, and advanced technology construction in Colorado and the Rocky Mountain region.

Before becoming president, Johnson had served as vice president of the company where his primary responsibilities included business development and formation of the special projects division. He is a current board member of the Penrose Hospital Community Board and chair of the Penrose Foundation Capital Campaign; the YMCA of the Pikes Peak Region; Wells Fargo Bank-Colorado Springs Community Board of Directors; Downtown Partnership Board of Directors; Associated General Contractors-Colorado board

member; and a member of the K-State Alumni Foundation Board of Trustees.

“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



James Johnson

and Tau Beta Pi advisor. “GE Johnson is an excellent representative of that standard.”

Leader of the Year reflects an individual whose leadership exemplifies the traits that K-State engineering strives to instill in its student body.

“We could not have chosen a better role model than Jim Johnson,” Hayter said.

Dyer named Fellow of the Association for Women in Science

A long record of promoting women in science and engineering has earned Ruth Dyer, professor of electrical and computer engineering and associate provost at Kansas State University, the designation of Fellow of the Association for Women in Science.

Dyer is one of seven individuals recognized with fellow status by the association this year. The Association for Women in Science is dedicated to achieving equity and full participation for women in science, mathematics, engi-

neering, and technology. Its fellows program recognizes women and men who have demonstrated exemplary commitment to helping women achieve in the science, technology, engineering, and mathematics fields.

She served as faculty adviser to K-State’s student chapter of the Society of Women Engineers from 1990–98. She was named special assistant to the K-State provost in 1998 and asked to oversee gender issues, including management of the K-State Mentoring Program for Women and Minorities in Science and Engineering.

Dyer currently serves as



Ruth Dyer

principal investigator of K-State’s ADVANCE Institutional Transformation Award from the National Science Foundation. The project has created various mentoring and professional development programs to enhance the recruitment, retention, and advancement of women faculty in the science, technology, engineering, and mathematics disciplines.

A K-State faculty member since 1983, Dyer earned the rank of full professor in 1997. She earned a bachelor’s and a master’s in biochemistry from K-State and a doctorate in mechanical engineering from the University of Kentucky.

News from Alumni

1977

Tim Hargrove (ME) is vice president of operations for Morgan Foods, LLC, Austin, Ind. His wife, Janet (Accounting ’75), is also a K-State grad.

1983

Doran Morgan (ME), and his wife, Kristina (Herman) Morgan (Business ’86), have relocated from Lexington, Ky., to El Paso, Texas, with their four children. Doran is employed by Lexmark Int’l Inc. as the process engineering manager for their toner cartridge component manufacturing plant in Juarez, Mexico.

1990

Kurt Anderson (ChE) is finishing his 20-year Army Reserve/National Guard

career with a one-year tour as a civil affairs team leader in Baghdad, Iraq. kurt.e.anderson@us.army.mil

1994

Joe Hug (ME) and his wife, Roxanne, announce the birth of their daughter, Mara Jean, born March 5, 2006. She joins two older brothers, Alex and Johnny. Joe is technical services manager at Monarch Cement Company, Humboldt, Kan. joe.hug@monarchcement.com

Deaths

Joseph Evans Ward, Jr., St. Paul, Minn., died Nov. 10, 2005. He joined the electrical engineering faculty at Kansas State in 1940, attaining the rank of professor in 1961. He retired in 1983. Ward was a senior member of IEEE and a licensed professional engineer in Kansas. He is survived by his wife, Margaret Anne, two sons, two daughters, 12 grandchildren, and six great-grandchildren. A Joseph E. Ward Scholarship in Electrical Engineering has been established.

Memorial contributions may be made through the Kansas State University Foundation.

1951

Shirley B. Cheatum (IE), Houston, Texas, died March 2, 2005. He had been a training center manager for General Motors. He is survived by his wife, Katherine (Conrad) (HomeEc ’49), and three children.

1958

Rudolph (Rudy) H. Kramer (CE), Topeka, Kan., died Dec. 11, 2005. He was a professional registered engineer and spent most of his career employed by the Kansas Department of Transportation. Rudy is survived by his wife, Betty, four children, 17 grandchildren, and four great-grandchildren.

1971

Ralph Wayne Gwinn (ME), Leawood, Kan., died Aug. 23, 2005. He is survived by his wife, Janet, one son, and two grandchildren, including granddaughter, Jana, who is attending K-State.

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Seaton

SOCIETY

Seaton Society members are those who contribute \$500 or more annually to funds in the College of Engineering. The college recognizes those members below who contributed between 1/1/2005 and 12/31/2005:

Director \$10,000 to \$99,999

Martha Alford
Arnold and Terrie Allemang
Stan and Enid Barnett
Tom and Marilyn Barrett
George Breidenthal
Ron and Phyllis Choate
Wright and Jaclyn Cochran
Gib and Brenda Compton
Randy and Jacquie Coonrod
Ruth Coonrod
Dick and Mary Elizabeth Corbin
Wanda Culbertson
Joe and Sherry Downey
Gary and Peggy Edwards
Larry and Holly Engelken
Larry and Laurel Erickson
Ike and Letty Evans
Lucile Hawks
Brent and Bonnie Heidebrecht
Mark and Mary Hutton
Jim and Laura Johnson
Patrick and Rhonda Johnston
Iris Karl
Faye Kaul
Drake and Eileen Knapp
Samuel and Martha Logan
Debbie Malone
Dean and Lavon Morton
Laree Mugler
Phillip and Jean Myers
Tom and Connie Paulson
Perry and Virginia Peine
Charley Ponton Jr
Keith Pugh
Bret Rose
Stacy and Robin Sawyer
Rhea and Pat Serpan
Hal and Mary Siegele
Dean and Sharon Skaer
Lloyd and Sarah Smith
D L and Suzy Smith
Robert and Peggy Smith
Allen Smoll
David Smoot
Virgil and Jane Snell
Warren and Mary Lynn Staley
Ernest and Susan Straub III
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IMPACT is published twice a year by the Kansas State University College of Engineering, Manhattan, KS 66506-2588. It is available on the Web at www.engg.ksu.edu.

Issue No. 16 Spring 2006

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