

Kansas State University

Biological and Agricultural Engineering Newsletter Summer 2010

Message from the Department Head

Special Announcements:

- The BAE Newsletter will be distributed annually during the summer months. Previously the newsletter was mailed during the winter months. We continue to encourage alumni to provide updated information via the form located on our website, www.bae.ksu.edu/alumni.
- See Page 10 for BAE September 2010 events!

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I have had the opportunity to travel through each of the 105 Kansas counties. Each county is as unique as the two letter identification code on the license plates. County courthouses are often the center of the county and one of many historical structures. Each community has different landscape, businesses and restaurants. I learned early on the best restaurants were easy to locate since law officials congregated at these businesses for breaks or meals. I also observed elevators towering above the horizon identified the next community of people. My travels provided the opportunity to view many structures that have withstood the test of time over the years along the highways. Historical structures have the common linkage of a firm foundation. Foundations provide the structural support for many historical buildings but generally are not visible to the casual person viewing the architectural features. Credit is given to the craftsmen who skills resulted in ornate design along

the exterior of the building. The individuals who dug and poured the foundation provided the basic structure for these historical buildings to remain for our viewing and enjoyment today.

An academic degree is the basic foundation for our graduates. The Biological and Agricultural Engineering community at Kansas State University strives to provide the foundation necessary for a successful and productive career of the young men and women entering our degree program. It is rewarding and encouraging hearing of alumni successes and their appreciation for the foundation provided while at KSU. A degree represents the collective experience of individual students with each having unique characteristics. Personal work ethics, core values, understanding of classroom knowledge and ability to work with others are all components of the academic foundation. The BAE department is experiencing growth, however, we are continually evaluating and assessing our programs to



Dr. Joseph P. Harner III

make sure the foundation remains strong and will support future opportunities provided to our graduates. Just as building materials and techniques have changed, the educational foundation continues to change. Distance educational courses, social networking communities, computer-based independent studies and team and leadership experiences are just some of the components now being integrated into the educational foundation.

The BAE Advisory Council continues to discuss ways to increase our alumni (continued on Page 2)

Message from the Department Head (continued from Page 1)

involvement in this critical phase of career development. Ideas include serving as team advisors, undergraduate student advising, guest lecturing and senior design projects. The advisory council and BAE faculty are seeking how to integrate

the best of the past with the new requirements of the future. We welcome your concepts and ideas in helping us continue to provide a strong educational foundation for our students. During the coming months some of our alumni

and employers will have an opportunity to provide feedback on the integrity of the foundation of BAE graduates during the past 5 years as part of the ABET accreditation process. I would ask you take a moment and respond to this request for information and

feedback. The building of a career begins to take shape once our students leave campus. Please help us as we strive to maintain the legacy of providing the educational foundation necessary for young people to succeed.

Activities During Spring Semester

BAE Graduate Students Spring 2010 Sports Fest

In February BAE's grad students held their 1st annual Spring Sports Fest at the KSU Rec Complex. Each team (composed of graduate students and 1 faculty member) competed in basketball, bowling, billiards

and soccer. Four teams competed: Air Group, Bioprocessing Group, Renewable Group, and Sensors Group. Winners were: Air Group-basketball and billiards competitions; Water Group-bowling; and Bio-

processing Group-soccer. "Overall Team Champion" winner was the Bioprocessing Group.

Our graduate students held their ice cream festival at Call Hall. This is an opportunity each semester to

celebrate the accomplishments of our graduate students and congratulate those who completed their degrees during the spring semester and those who will complete their degrees during the summer.



Open House—April



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The All-University Open House was a huge success being held the same weekend as the spring football game! Our students served over 700 pancake meals this year compared to 500 last year! BAE students Austin Smith (junior) and Joshua Umscheid (freshman) were awarded the 2010 Steel Ring Award for Best Display Department Award. Their display was titled *Preparing for the Future with Design*. The College of Engineering parade and skits were enjoyed by all!



Departmental Highlights—Undergraduate and Graduate Students

- 132 undergraduates enrolled in Biological Systems Engineering programs
- 83 undergraduates enrolled in Agricultural Technology Management program
- 14 Master's candidates in BAE, 6 of these candidates are enrolled in BS/MS dual degree program
- 17 Ph.D. candidates in BAE
- 8% of undergraduates are university premier scholars
- Figures for Fall 2010 semester show 51 students, including incoming freshmen will receive academic scholarships (GPA of 3.5 or higher) from the department, college or university. The total amount of scholarships exceeds \$173,000, with approximately 40% being departmental support. Six incoming freshmen received Putnam scholarships and 11 others received university/college academic scholarships.
- Robotics Team placed first in international competition at the ASABE 2010 Annual International Meeting in Pittsburgh, PA. Competition team members include: Dan Bigham (Meriden, KS), Joe Dvorak (Manhattan, KS), Wei Han (Canada), Seth Perkins (Wichita, KS), Xu Wang (China), Brent Ware (Shawnee Mission, KS), Huiquan Zhang (China). Other team members are: Audrey George (Salina, KS), Ryan Goetsch (Overland Park, KS), Katie Hildebrand (Stafford, KS), Grant Keller (St. Francis, KS), Peng Li (China), Levi VanPelt (Manhattan, KS).
- Fountain Wars Design Team also competed in international competition during the ASABE annual meeting with a second place finish. Competition team members include: Lorinda Bejot (Dodge City, KS), Kelly Borgen (Ensign, KS), Katie Handley (Onaga, KS), Levi Sutton (Manhattan, KS), Justine Sullivan (Lakin, KS), Brent Ware (Shawnee Mission, KS). Other team members are: Allie Archer (McPherson, KS), Kari Friedrichs (Marysville, KS), Erin Mason (Greenfield, MO), Breanna Stout (Garden City, KS), Ginger Pugh (Mayetta, KS).
- First place finish was won by Scott Wiens (Inman, KS) in the K.K. Barnes International Student Paper Contest during the ASABE annual meeting.
- ATM Club received AEM Trophy for top student mechanization branch for the fourth consecutive year. K-State Student Branch received third place in the "Student Engineering Branch Participation" at the ASABE meeting.



Departmental Highlights—Faculty and Staff

- Dr. Ronaldo Maghirang, one of 8 lead team members of the Air Quality: Reducing Emissions from Cattle Feedlots and Dairies research team, received the 2010 Texas Environmental Excellence Award. This award is presented to environmental projects that demonstrate excellence in resource conservation, water reduction and pollution prevention. The project involved 5 agencies or universities working together to conduct research to develop science-based emission factors and cost-effective abatement technologies, and to extend that research to feedlot and dairy industry and regulators. Many graduate students received hands-on training in the course of this project. The field and laboratory research is aimed at accurately determining emissions of dust/particulate matter, ammonia, hydrogen sulfide, odor and volatile organic compounds from cattle feedlots, and developing technologies to mitigate such emissions.
- Receiving a 2010 ASABE Honorable Mention Paper Award are Drs. Ronaldo Maghirang, Pat Murphy, Larry Erickson (Chemical Engineering) and Emad Almuhan (former BAE graduate student) for their paper *Laboratory Scale Electrostatically Assisted Wet Scrubber for Controlling Dust in Livestock Buildings*, which was published in *Applied Engineering in Agriculture*.
- Dr. Naiqian Zhang was named a Fulbright Scholar by the U.S. Department of State, Bureau of Educational and Cultural Affairs.
- The 2010 Rain Bird Engineering Concept-of-the-Year Award was presented to Drs. Floyd Dowell (BAE adjunct professor), Donghai Wang and 3 other members of the engineering team for the *Automated Single Kernel Near-Infrared Sorter*, which reduces the time and cost of sorting individual grain kernels in genetic trials for wheat. The award was presented to the team during the ASABE 2010 annual meeting.
- Drs. Mahbub Alam, Dan Rogers, Bob Wolf and Morgan Powell received Blue Ribbon Awards for outstanding educational aids.
- WESP *Making A Difference Award* recipients were: Dr. Naiqian Zhang and Ms. Edna Razote, research assistant.



Undergraduate Experiences—2010

EMC Spring Break Trip—DeeAnn Turpin

During Spring Break 2010 I traveled with Episcopal Campus Ministry (ECM), a religious organization through K-State, to New Orleans. With 15 other K-State students, we took a road trip to work on Project Homecoming, which is a statewide initiative to rebuild the houses, the community, and ultimately the lives of those who are still affected by the aftermath of hurricane Katrina. Once I arrived in New Orleans, the Presbyterian Disaster Assistance welcomed and invited me for a week-long stay at Olive Tree. For the week that I was in New Orleans I did more than just work and live—I talked to complete strangers and made strong connections and

friendships, I laughed every minute, and I touched the lives of others. Every day my crew and I arrived at our work site and immediately began working, but it was not the bland, organized actions that got us through the work...it was the humor and the conversations that fueled our work. We would sing, tell jokes, and laugh, and we put so much love into even the simplest tasks. While we worked hard and "played" hard, I did learn a lot. The most prominent idea that I recall from the trip is the importance of volunteering, not that I have never volunteered before, but how many people have not. Every day people passing by would ask if we were professionals and when some found out that we

were volunteering from other states, they were expressionless, as if we spoke the word "volunteer" in a foreign language. At that moment, I realized that for progress to be made in any situation, sometimes people just need to dedicate some time in lending a helping hand, not for them, but for the betterment of the world. From my extremely positive experiences gained on this trip, I highly

encourage everyone to take advantage of opportunities that arise to help others and do not forget to enjoy every moment because it is such a rewarding experience.



Undergraduate Experiences—2010 (continued)

Winter Break Field Camp—Ginger Pugh

Last winter I had the privilege of attending a week-long field camp for Schlumberger in Little Rock, Arkansas. Schlumberger, which employs over 80,000 people worldwide, is a leader in oil and gas services. They provide field expertise, management, and technology to clients in 80 different countries. A group of 20 second-, third-, and fourth-year college undergraduates were selected from universities all over the country to attend this camp. During the week, my fellow students and I participated in

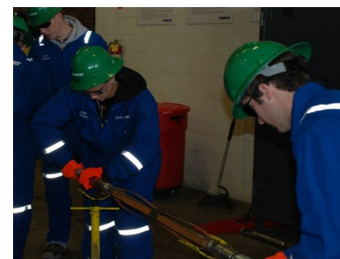
hands-on activities working with equipment that Schlumberger uses in the field, team building exercises, interviews, and were even able to spend some time on a rig and ex-

perience a site first hand. I was originally introduced to the company by Rebecca Burns, an upperclassman of mine at Kansas State University, who had internships with them two summers in a row



information sessions, I learned more and more about the company and got to know some of the people I could potentially be working with. After attending the camp, I discov-

ered that although it would be a very exciting and fast-paced lifestyle, it wasn't really something I could see myself satisfied with as a career. Having this experience helped me to realize how important it is to enjoy your work, and I would recommend anyone still questioning where they plan on going with their career to get out there and learn about different engineering fields. I know this helped me decide where I want to be.



ums, and "Le Raide" which was a relay of mountain biking, canoeing, running, and topped off by a final jag of mountain biking. Very draining experience, nonetheless, an experience that I enjoyed and would very much like to do again.



Spring 2010 Study Abroad—Spencer Kepley

I had the opportunity to study in Toulouse, France for a semester. This was an exceptional experience that gave me not only a perspective of the wonders of French culture and gastronomy, but also the determination

that drives many students to leave their home countries, enter a country with a language different from their own, and study the same material as the native students. Not at all an easy task. Nevertheless, this is what I did for a semester, adapting at a pace that seemed agonizingly slow, but well worth the time spent.

After studying chemistry at school, I was also active with the school's basketball team. We had a stellar year, finishing second in the "Championnate de France" which is a tournament between schools of similar studies and size. Weekend activities included parties, a day skiing in the Pyrenees, excursions to the local cities, visits to muse-

My time abroad has definitely changed me in many ways, one of which that I would like to mention



Undergraduate Experiences—2010 (continued)

Spring 2010 Study Abroad—Spencer Kepley (continued from Page 5)

is vocally. My voice has undergone modifications that my family noticed over the telephone and are undoubtedly due to my attempts at a French accent. Perhaps not the most significant change, but undoubtedly one that is experienced by foreigners as

a result of attempts to become integrated with the locals.

Spencer Kepley is a senior majoring in Biological and Agricultural Engineering. He studied abroad in Toulouse, France at the National Polytechnic Institute of Toulouse

through the U.S. Department of Education's FIPSE program.



Summer 2010—Allie Archer

Every summer K-State bravely sends students abroad to serve communities all over the world as a part of the Leadership Program's International Service Teams. I spent this summer with four other KSU students in Nyeri, Kenya, volunteering at the Children and Youth Empowerment Centre (CYEC). The CYEC is an initiative of the national program for street-dwelling persons and is intended to play a central role in the innovation of holistic and sustainable solutions for the population of street-dwelling young people in Kenya. The center provides a home, food, and an education to the more than 100 children that live on site.

For ten weeks we lived and volunteered at the center helping out in whatever capacity we were most needed. Our biggest project was teaching the youngest,



and newest children at the center English, Math, and Science classes. We also monitored and led after school clubs and activities and supervised tutoring in the evening. Soccer was a favorite pastime for the children at the center, and there was an active boy's soccer team (despite the lack of soccer cleats). There was no real opportunity for the girls to play, so we developed a girl's soccer program.

The KSU program requires a minimum of eight weeks of service on site, but leaves whatever extra time is left over for traveling. Our

team took full advantage of this and experienced many different parts of Kenya before returning

home. Our first trip was to go on Safari at the Maasai Mara National Reserve—famous for the annual wildebeest migration that takes place each July. After our safari we headed to Mombassa, Kenya, a coastal town that lines the Indian Ocean. We also hiked several waterfalls, rode camels to the equator, and traveled to Nairobi to experience some big city atmosphere.

Living and working in Kenya this summer



Undergraduate Experiences—2010 (continued)

Summer 2010—Allie Archer (continued from Page 6)

taught me a lot about a new country, different ways of life, and challenged my views of the world. The children at the center taught me to not take things for granted and appreciate and enjoy the little moments in life. Most of all they taught me how to have a lot of fun and that Americans are way too hygienic! While living in

Kenya provided its fair amount of challenges and setbacks, this exposure is something I would never trade and would do again in a heartbeat. More than anything, this summer has inspired me to want to continue to do work in developing countries and hopefully make a difference in the lives of people who need it the most.



Summer 2010 Internships

The following ATM students worked in internship capacities:

Andrew Baker worked as a dealership management and precision ag technology specialist with Leoti Greentech, Inc. in Leoti, KS.

Ryan Evans was at ADM in Enid, OK working as a terminal elevator management trainee.

Neil Isaac field tested machinery with CNH in New Holland, PA.

Travis McCoy performed field testing with Roto-Mix in Dodge City, KS.

Andrew Vosburgh worked on research in innovative irrigation scheduling instruments with Fontanelle Hybrids, Macksville, KS.

Logan Zimmerman worked at Hemisphere GPS in Hiawatha, KS performing precision ag technology sales and service.

BAE wishes to express our gratitude to all our alumni and friends in providing these rich experiences to our students. The knowledge they gain from internships will last throughout their entire careers.

Neil Isaac — CNH, New Holland, PA

This summer I was privileged to get an internship with Case New Holland (CNH) of America. My job was in the Crop Harvesting Field Test Division. My pri-

mary responsibilities were to test prototype parts on both New Holland and Case IH flagship combines. During the first month, I rebuilt two New Holland combines with

prototype parts to be tested during the 2010 wheat harvest. My second month was spent in Louisiana where I was testing Case IH model year 2012 prototype com-

bines cutting high moisture corn and dry corn. My last weeks were spent helping run tests on a model year 2014 prototype part.



Undergraduate Experiences—2010 (continued)

Andrew Vosburgh—Fontanelle Hybrids, Macksville, KS

This summer I worked for Fontanelle Hybrids. Fontanelle hybrids has a new product called Aqua View. Aqua View is a moisture probe that reads how much moisture is in the soil profile. The probe creates a graph and then sends

it to a computer which I could look at and decide when and how much to irrigate. Part of my job this summer was to use a hand probe to compare against the graph. I believe the future of irrigating crops is in products like Aqua View.



Ryan Evans—ADM, Enid, OK

I had the opportunity to intern with a company I had the pleasure to work with during the summer of 2009. I learned of the possibility after talking with two of their regional superintendents after an ATM Club meeting last fall. The company I had the opportunity to work with during the past two summers is Archer Daniels Midland. Two summers ago I was in the sum-

mer work program at the flour mill in Lincoln, Nebraska. This summer I had an internship with ADM Grain in Enid, Oklahoma.

This summer started with a week long orientation process at the corporate headquarters in Decatur, Illinois. The orientation began with safety training for the summer, and a tour of the facility at Curran, Illinois. One day was spent learning several different aspects of the company as a whole. While at orientation I received the personal protective equipment that I would need to have on all summer. On the last day of orientation the president of ADM spoke

with us in the morning; after that I attended more meetings describing procedures of daily operations that I would use, and travel/relocation paperwork that needed to be completed.

My internship has been an awesome experience into my future career. I was an intern in the ADM Grain Terminal Operations Management. The internship required that I follow a progression that has been constructed to give me the opportunity to experience everything that would be part of my career in the future. My daily tasks included assigning work that needed to be completed,

supervise employees doing jobs correctly and to be as safe as they can while performing their work. In the last week of my internship I had the responsibility of working with contractors by filling out permits they would need to complete their work and supervise their work to make sure that they followed all the safety protocols which all ADM employees must abide.



Andrew Baker-Leoti Greentech, Inc., Leoti, KS

I had the privilege to work for the local John Deere dealership. I was exposed to the company's huge customer base. With this I had to learn customer relation skills in a hurry, as the entire company is based on the customers and their needs.

I worked in all de-

partments of the company to learn how the different departments functioned. In the parts department I did what every parts employee does. I helped customers and technicians by finding and ordering the parts for equipment. In the service department I worked in the set up crew. This was to show me how the

different equipment was put together and how it worked. I didn't actually get to sell any equipment in the sales department, but I did go with the sales representatives to the farmer's site to help set up equipment for the job.

I learned the most with the sales department

because it gave me a lot more hands on with working with customers and on equipment. Also in the sales department I got my hand in on the AMS part of the dealership. This was important because AMS is the biggest and fastest growing division of agriculture these days.

Undergraduate Experiences—2010 (continued)

Logan Zimmerman—Hemisphere GPS, Hiawatha, KS

I worked for Hemisphere GPS in Hiawatha, who sells and distributes Outback Guidance products. These products aid in the automated steering in



tractors, planes, sprayers and many other

agricultural machines.

For my internship as a Field Development Technician, I worked with a group to develop kits for our new eDriveX product which plugs into the hydraulics of a machine and receives auto-guidance that way. Our goal



was to develop kits that fit as many series of the machines as possible. We accomplished this by locating our dealer customers and actually installing them on their machinery. I also developed the manuals for these kits to be published, describing how these kits are

to be installed and how to calibrate each system.

I plan on returning to Hemisphere GPS after graduation this December either as a Field Development Technician or a Product Specialist.



Travis McCoy—Roto-Mix LLC, Dodge City, KS

I am a senior at Kansas State University majoring in Agricultural Technology Management. I had an amazing opportunity this summer to work as an intern with a Kansas-based company, Roto-Mix LLC of Dodge City. Roto-Mix is a family owned company that specializes in building feed mixers for the beef and dairy industries.

The process of obtaining this internship is an interesting story. For the past two years I have worked at the KSU Dairy Unit. We use a Roto-Mix

414-14B Forage Express feed mixer to feed the cows and I had the opportunity to use the mixer on many occasions. Last fall I happened to be driving through Hoisington, Kansas and I saw the Roto-Mix Plant (one plant is in Dodge City and the other is in Hoisington). So I decided to email Roto-Mix and see if they would be interested in having an intern. That led to an interview a month later, a follow-up interview in the spring, and the rest is history.

I have to say it was a great internship. I worked in

Dodge City for a month and a half, starting in the assembly department. I learned how the big horizontal mixers go together,

how the power train works, and how to work with a variety of very interesting people. After that I was transferred to the service department where I helped prep trucks to mount mixers, and also learned how the mixers are prepped after assembly. We also mounted the mixers and did the final wiring, minor assembly, and fabrication required to make the unit ready for customers to use. In addition, I had the opportunity to do a service trip at a feed yard near Ulysses, Kansas where we replaced the input shaft bearing on a stationary unit.

After the 4th of July I started in Hoisington, helping assemble smaller mixers, vertical mixers, and one brand new Oswalt mixer. I learned different ways of putting mixers together and got a broader view of the company than I



would have if I had stayed in Dodge City. Since I have had experience doing machine shop work, I also worked in the machine shop for a week and half cutting splines on jackshafts, machining shafts, flanges, idler blocks, and sleeves.

It was a great experience and I have put some thought into returning to work for them in the future. I was truly blessed to have such good luck with the internship and my sincerest thanks goes out to everyone who helped make it possible.



BAE 536 Senior Design Project Request for Fall 2011

Students enrolled in BAE 536, Biological Systems Engineering Design Project I (Senior Design) are in the following options:

- Biological Option
- Environmental Option
- Machinery Option

Approximately 8 design projects will be needed. The types of pro-

jects needed are broken down as follows:

- 2 Biological Option projects
- 3 or 4 Environmental Option projects
- 2 Machinery Option projects

Good design projects will have:

- A client who meets with

the students and will take delivery of the finished project;

- An existing real problem that needs a solution;
- The potential to be built if the proposed solution is acceptable;
- Some funding to cover travel costs, purchase of materials or other incidentals as, or if, needed.

If you have an idea or suggestion for a design project or would like to sponsor a design project, please contact:

Ed Brokesh, P.E.
Machinery Systems Instructor
Department of Biological and Agricultural Engineering
Kansas State University
129 Seaton Hall
Manhattan, KS 66506-2906
785-532-2907 (office)
785-410-4330 (cell)
ebrokesh@ksu.edu

September 2010 Events in BAE

September 24, 2010—The BAE Student Excellence Reception will be held in the Cats Pause Room, K-State Student Union from 5:00 p.m. to 6:30 p.m. The reception is held to acknowledge and recognize Biological and Agricultural Engineering students who have excelled in recent months as we begin an exciting new academic year. These students who have excelled are committed to exceeding minimum standards in academics and/or student organizations and activities. We would enjoy having you join us as we celebrate the excellence in our students' achievements, and give you an opportunity to visit with the scholarship recipients, BAE faculty, and guests from the Colleges of Agriculture and Engineering.

Please contact Lou Ann Claassen at 785-532-2901 or lkc@ksu.edu by Wednesday, September 15 if you wish to attend the 2010 Biological and Agricultural Engineering Excellence Reception.



September 25, 2010—The Second Annual BAE Alumni Brunch will be held from 9:00 a.m. to 11:00 a.m. in Seaton 142. Later in the day, the K-State Wildcats will host the University of Central Florida Knights at the Bill Snyder Family Stadium in Manhattan, Kansas. There is a \$10 per person charge to help defray the cost of food, and may be paid at the door. If you prefer to pay in advance, please make your check payable to the "Department of Biological and Agricultural Engineering" and send to :

Barb Moore
Department of Biological and Agricultural Engineering
Kansas State University
129 Seaton Hall
Manhattan, KS 66506-2906

Please RSVP to Barb Moore (785-532-2900 or bjmoore2@ksu.edu) no later than September 20. We look forward to seeing you at the BAE Alumni Brunch on September 25! **GO CATS!!!**

Retirement—Dr. Jim Koelliker

Dr. Jim Koelliker was recognized for over 35 years of service to Kansas State University on May 5, 2010, in the Cats Pause Room at the K-State Student Union.

Dr. Koelliker received his B.S. degree in Agricultural Engineering from K-State in 1967. He received his Master's and Ph.D. degrees from Iowa State University in 1969 and 1972, respectively. Dr. Koelliker returned to K-State to a faculty position in Civil Engineering for 19 years, and was named the ninth department head in Biological and Agricultural Engineering in 1997.

Dr. Koelliker's research focus was on the hydrologic aspect of ecological systems. This research advanced knowledge in the understanding of water movement through ecosystems, watershed modeling, integrated approach for water quality assessment and

development of strategic management strategies using simulation models.



Dr. Koelliker also works with ecologists at the Konza Prairie Biological Station centers on hydrology and manipulations of the water regime on native tallgrass prairie ecosystem as part of the Long-term Ecological Research Project.

He is a registered professional engineer in Colorado and Kansas, a Fellow in the American Society of Agricultural and

Biological Engineering (ASABE), a member of 11 other professional organiza-

tions and re-

the Board of Trustees and in other professional capacities.

We are all grateful for his many years of dedicated service and professional accomplishments. His research and teaching have led to a greater understanding and appreciation of water issues in Kansas and the High Plains region. The faculty and staff in the departments of Civil Engineering and Biological and Agricultural Engineering, along with many others, acknowledge his leadership, mentorship and friendship to the K-State community.

recipient of numerous honors and awards. He remains active in ASABE serving on



BAE Spring/Summer 2010 Graduates

Doctorate

Spring 2010

Josephine Boac
Bataan, Philippines
(Dr. Maghirang)
Peng Li
Hohhot, China
(Dr. Zhang)

Master of Science

Spring 2010

Sarah Shultz (BS/MS)
Overland Park, KS (Dr. Zhang)
Scott Wiens (BS/MS)
Inman, KS (Dr. Rogers)
Summer 2010
Rohith Gali
Guntur, India (Dr. Douglas-Mankin)
Hale Sloan
Sharon Springs, KS (Dr. Hutchinson)

BAE/BSE B.S.

Spring 2010

Damien Bailey, *Manhattan, KS*
Corey Brown, *Oak Grove, MO*
Rebecca Burns, *Mayetta, KS*
Katie Hildebrand, *Stafford, KS*
David Livengood, *Goodland, KS*
Jared Selland, *Everest, KS*
Sarah Shultz, *Overland Park, KS*
Hale Sloan, *Sharon Springs, KS*
Derek Taylor, *Overland Park, KS*

ATM B.S.

Spring 2010

Derek Drake, *Clyde, KS*
Keenan Frownfelter, *Manter, KS*
Brent Kvasnicka, *Narka, KS*
Zachary Louderbaugh, *Yates Center, KS*
Neil Rosebeary, *Manhattan, KS*
Scott Taylor, *Lindsborg, KS*
Jared Unrau, *Newton, KS*
Timothy Wright, *Mayview, KS*

Alumni Updates

We would like to dedicate a portion of the newsletter to include our alumni. If you would like to include information/news for the 2011 newsletter, please e-mail the following information to bjmoore2@ksu.edu:

- Name
- E-mail address
- City/State currently residing
- Employer
- Job title
- Alumni of BAE or Friend
- Degree(s) received and

year(s) (BS-Mechanical Agriculture/ATM; BS AE/BAE/BSE; Master's; Ph.D.)

- Information/news you would like to share

Jeff Blood - 2001 BS-ATM. Jeff is the manager of regional operations for Ritchie Bros. Auctioneers in Phoenix, Arizona and can be contacted at bloodjeff@hotmail.com.

Lucas Haag - 2005 BS-ATM, 2008 MS-Agronomy at K-State. Lucas is currently living in Tribune, KS, and is an assistant scientist with the K-State Southwest Research-Extension

Center in Tribune. Lucas' contact information is lhaag@ksu.edu.

Larry Molder II - 2000 BS-BAE, 2006 MS-BAE. Larry is a professional environmental engineer I with Kansas Department of Health & Environment in Topeka, KS, and has worked for KDHE for 8 years. He started with the Bureau of Air and Radiation's Stack Testing Program; then went to the Bureau of Solid Waste in 2005, learning about landfills. In 2008 he started working in the Bureau of Water's Municipal Programs Sec-

tion overseeing the Sewer Extension Program and supervising an environmental technician who assists Larry with reviewing and approving project plans and specifications. Larry is also the project engineer for approximately 20 State Revolving Loan Fund (SRF) wastewater infrastructure repair projects throughout the state. Larry's e-mail address is LMolder@kdheks.gov.



In Memory

Paul Stevenson, BAE emeritus professor, passed away on December 4, 2009 in Wamego, KS. He was a faculty member for 27 years and was highly regarded for his ability to teach technical subject matter.

Col. Richard "Dick" L. Jepsen, Retd. and Professor Emeritus, passed away August 26, 2010, in Manhattan, KS. Funeral services were held on Monday, Au-

gust 30, in Manhattan. Mr. Jepsen was appointed Sheridan County Agricultural Agent in 1953. In 1961, he was recalled into military service for one year. He returned to Sheridan County until 1963 when he was appointed Extension Specialist, Rural Civil Defense at Kansas State University. Mr. Jepsen was appointed as Extension Specialist, Farm and Home Safety in 1975 and Project Director, Agricultural Safety and Health Center in 1980. He served in

this position until his retirement in 1985.

Survivors include his wife, Wanda, of the home; two sons, Robert Jepsen, and his wife, Sharon, Warrenton, MO and Randy Jepsen, and his friend, Kelley, Arlington, TX; two daughters, Carol Brown, and her husband, Mike, Centerville, VA and Myrna Gless, and her husband, Terry, Drummond, MT; nine grandchildren; and 10 great grandchildren.

Memorial contributions may be made to the

American Legion Post No. 17 or the World War II Memorial at KSU and may be sent in care of Irvin-Parkview Funeral Home, 1317 Poyntz Avenue, Manhattan KS 66502.

Communications to Mrs. Jepsen may be sent to: 2409 Lookout Drive, Manhattan KS 66502.



Strengthening Partnerships

You may recall that you received a newsletter from us earlier this year. We have decided to change the timing this year in order to communicate with you during off peak times that you may be receiving other communications from K-State entities such as the Alumni Association, the Office of the Dean or the President, and even Telefund.

Many alumni have inquired about directing financial support to the Department of Biological and Agricultural Engineering. This is absolutely an option. These gifts are most welcome and appreciated. Such gifts would be applied to our Agricultural Engineering Enhancement Fund. We utilize such gifts to support student activities such as field

trips, lab support, conference travel, special events and activities for the advancement of the department. Another way alumni can provide support for the department is to donate equipment or supplies. Such "in-kind-gifts" to the department would be considered a contribution and, therefore, a charitable tax contribution.

One example of how we use the Agricultural Engineering fund is to support our Educational Excellence and Enhancement program which was established last year to help provide financial assistance to students not receiving academic scholarships. This program provides opportunities for students to be employed in the department

at wages higher than received by working in other local businesses. The department benefited by their efforts to enhance our programs while students were able to improve their resumes through working. Last year's students participating in this program served as mentors to incoming freshmen, research, teaching or laboratory assistants and program ambassadors. This is just one example of the role alumni giving plays in the lives of our students at K-State.

If at any time during the year you would personally like to visit with our department head or a development officer from the Foundation to explore financial

giving opportunities, do not hesitate to call. We will make appropriate arrangements for a visit along with exploring opportunities to establish a legacy in your name. Do not hesitate to call if you have questions about some of the opportunities mentioned or you would like to become more actively involved in supporting the BAE program. Please contact Joe Harner (jharner@ksu.edu) or Liz Townsend (lizt@found.ksu.edu) if you would like additional information or discuss how you may become more integrally involved in the department.



Special Thanks

A special thanks to those who have contributed financial support. Gifts from individuals, families, and corporate partners are vital in supporting the scholarships and the activities of our students. We have been impacted by the economy as fewer students are receiving

scholarship support during the 2010-2011 academic year. We are stretching resources to provide additional employment opportunities for more students. Thank you for the financial and in-kind support many of you provide directly to our design teams and may not

be listed below. Each team raises their own support—so your support is greatly appreciated. THANK YOU!

We would ask you to seriously consider helping our programs by supporting the Agricultural Engineering Enhancement Fund. The following page provides

more information on how to make contributions to BAE. Gifts of any amount are truly appreciated. Your gift can be directed to a specific team, scholarship, or to the general department fund. Thank you all for your support.

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