**BAE E-News**  
April 20, 2015

**2015 OPEN HOUSE AWARDS:**  
Congratulations to BSE students in their awards received during the COE 2015 Open House!

3rd Place – Outstanding Department Award  
1st Place – Graduate Student Display: *Branching into Biofuels* presented by Nana Baah Appiah-Nkansah, doctoral student  
1st Place – Technical Display: *Branching Out Through Agricultural Technology* presented by Devin Mangus, BS/MS student  
1st Place – Limited Display: *Branching into Alginate Applications* presented by Maggie Spangler, BSE senior  
3rd Place – Curriculum Display: *Branching Out Through BAE* presented by Chloe Boudreaux, BSE senior  

**Engineering Student Counsel Most Outstanding Student Competition**  
Team Award - BAE’s ¼-Scale Tractor Team  
Tau Beta Pi Underclassman-of-the-Year Award – Kseniya Sheshukova  
Tau Beta Pi Initiates - Anna Brokesh, Melissa Ebert, Austin Schmitz  

**Knights of St. Patrick**  
- Kevin Garman, Kayla Wehkamp  

**Individual Department Award** – Devin Mangus, *Branching Out Through Agricultural Technology*  

**Outstanding Ambassador-of-the-Year Award from the Engineering Ambassador Association** – Mikayla Kortan  

**New Engineering Ambassador (2015-2016)** – Sallem Ambessie

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**15th ANNUAL DEVELOPING SCHOLARS PROGRAM SYMPOSIUM:**  
Three BSE students presented at the Developing Scholars Program (DSP) Symposium on Sunday, April 19, in the K-State Student Union Ballroom. Patrick Guvele, BSE freshman, (below left photo) presented *Biological Interactions of Silver Nanoparticles in Human Cells*. His DSP advisor is Dr. Nancy Monteiro-Riviera, University Distinguished Professor in Anatomy & Physiology. Patrick received the 2015 DSP Promise Award. Noe Nunez, BSE freshman, (below right photo with advisor Dr. Lisa Wilken, BAE assistant professor) presented *Establishing Biomass Growth, Protein, and Lipid Productivities for Chlamydomonas reinhardtii*. Noe received the Edgerley-Franklin Urban Leadership Scholarship. Kseniya Sheshukova, BSE sophomore, presented *Extraction of a Recombinant Human Blood Protein from Rice Flour*. Kseniya received the 2015 Office of Undergraduate Research & Creative Inquiry Travel Award.
CONGRATULATIONS, CHEM-E-CAR STUDENT DESIGN TEAM!
K-State’s Chem-E-Car student design team won first place in the Chem-E-Car competition during the American Institute of Chemical Engineers Mid-America Student Regional Conference on April 4 in Lawrence. Aaron Akin, BSE sophomore, is a team member. The team also took first place in the poster competition. The national Chem-E-Car competition will be in November in Salt Lake City. Good luck, Aaron!

KANSAS SECTION ASABE MEETING:
Dr. Mark Casada, BAE adjunct professor, was awarded the 2015 Kansas Section ASABE Member-of-the-Year Award; and Dr. Lisa Wilken, BAE assistant professor, was awarded the 2015 Kansas Section ASABE Young Member-of-the-Year Award during the annual section meeting held on April 10 in Manhattan. The purpose of these awards is to recognize Kansas Section members for their outstanding contributions to the advancement of the agricultural and biological engineering profession. Congratulations, Drs. Casada and Wilken!

INGENUITY CENTRAL AT K-STATE OLATHE:
BAE faculty Drs. Joe Harner, Ajay Sharda and Mei He attended the Ingenuity Central at K-State Olathe on April 9. Ingenuity Central is a showcase of interactive and innovative exhibits that exemplify the most inventive ideas, technologies and processes across diverse industries in Johnson County and the Kansas City metro area. Twenty-two companies and seven representations of K-State Innovators participated in the showcase. Drs. Sharda and He were recognized as K-State Innovators.

Dr. He is scrutinizing the micro world for a future of point of care (POC) diagnosis. POC diagnosis extends the accessibility to high-quality health care by bypassing the need for sophisticated laboratory systems. Developing low cost biomedical devices is crucial for improving home care and providing rapid healthcare tests in resource-limited areas. Her research will introduce state-of-the-art POC diagnostic tools using micro-scale fabrication, including emerging “Lab on Chip”/microfluidic technology and mobile health technology.

Dr. Sharda, along with his team in BAE, is developing and evaluating precision agriculture technologies for crop production with particular interests in control systems, CAN, sensors, and automation. Their work focuses on crop production and machine performance data management and analysis for intelligent decision making.

THOUGHT FOR THE DAY:
“Believe in yourself and all that you are. Know that there is something inside you that is greater than any obstacle.”
--Christian D. Larson

LOOKING AHEAD:
April 30 – Engineering Research Faculty Meeting: Collaborating Outside Engineering with Animal Health, Bio and Agro-defense and Veterinary Medicine, 3:30-5:00 pm, Fiedler Auditorium
April 30 – Engineering Undergraduate Research Poster Forum, 5:30-7:00 p.m. Engineering Atrium
May 8 – Graduating ATM/BSE Seniors exit interview – 12:00-1:00 p.m., Seaton 133
May 8 – Spring 2015 semester ends
May 11-15 – Finals week
May 15 – Graduate School Commencement
May 16 – Undergraduate Commencement
May 16 – Residence Halls close
May 18 – Intersession begins
May 19 – Spring 2015 final grades submission deadline: KSOL 4:00 p.m., iSIS 5:00 p.m.
May 20 – Grades available in iSIS
May 25 – University holiday
May 26 – Summer 2015 term begins

Please submit your news and travel information to Barb Moore bjmoore2@ksu.edu