

News from C&PE

Chemical and Petroleum Engineering Newsletter

Week of Sept 16, 2016

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News from C&PE

Thank you to everybody who came to and participated in the first annual C&PE Open house on Wednesday! We hope you enjoyed the treats and the opportunity to meet the staff and faculty from the department. If you didn't get a chance to put your pin the C&PE World Map, please stop by 4132 Learned Hall during business hours and do so. We would love to see all of our students represented.

We've been making several changes to the [website](#) recently. If you haven't stopped by in a while, now is a great time to check it out. The Research tab now has a few new sub categories such as Publications, Graduate Seminar, and Current Graduate Students. Feedback about the website (or newsletter), can be sent to mkehr@ku.edu

Upcoming Funding Opportunities

DOE Accepting Applications for 2017 Mickey Leland Energy Fellowship Program ([LINK](#))

Doctoral Student Research Fund Application opening on Sept 19th ([LINK](#))

The deadline for NSF Graduate Research Fellowships is coming, Oct 24th. Damon Talbott in Graduate Studies has been quoted as saying there is a 1 in 7 chance your application will be accepted, but the only way to find out is to apply. ([LINK](#))

The Global Scholars program is now accepting applications for the 2016-17 cohort. Sophomores with an interest in global studies and a 3.5 GPA should apply. Global Scholars gives students opportunities to study abroad, conduct faculty-mentored research and participate in intercultural learning opportunities. Scholars receive a \$1,000 scholarship toward a KU-approved, credit-bearing study abroad program. The application closes at 5 p.m., Thursday, September 22. For more information, go to [LINK](#) or email mmward@ku.edu.

Upcoming Training Opportunities

Are you a petroleum student interested in learning Visual Basic for Applications (VBA)? There's a free web event for that! It starts on Sept 19th, so sign up now. ([LINK](#))

Want to learn a new program or expand your current knowledge? Try the KU IT Technology workshops. They are free and usually only take a hour or two. ([LINK](#) to Calendar of workshops)

Good To Know

Are you interested in more professional development opportunities?

Remember that the Career Center is always available to you. Their site is [HERE](#). If you haven't checked it before, you might be surprised at all the resources that are available, such as: job links, industry events, information sessions, workshops, and more.

Perhaps you're looking for an alumni mentor? Have you checked out the Alumni Association's Website? Incoming freshman can join for free (for 4 years) and for other students the cost is \$25/year. They offer networking events, a mentoring network, and other exciting opportunities. See [HERE](#) for more information.

Student Spotlight on Graduate Student Robbie Hable



Robbie received his bachelor of science degree in Chemical and Biological Engineering from Iowa State University. His research interests are in sustainable, biorenewable fuels, and chemicals with his thesis focusing primarily on algal biofuels. After graduating, he hopes to work as a research manager for a start-up biofuels or biochemical company and possibly start his own business someday. In his free time, he enjoys playing sports, spending time out at Clinton Lake, and enjoying the nightlife in downtown Lawrence or KC. Robbie is also a graduate ambassador and often represents our department at recruiting events. Help me in thanking Robbie for all he does to put KU and C&PE on the map!

New Publications

Kim, J.; Renault, C.; Nioradze, N. Arroyo-Curras, N.; Leonard, K.C. and Bard, A.J. "Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy." *Journal of The American Chemical Society* DOI: 10.1021/jacs.6b03980 (2016)

C. Depcik, J. Jachuck, D. Jantz, F. Kiani, M. Mangus, J. Mattson, E. Peltier, & S. M. Stagg-Williams, "Influence of Fuel Injection System and Engine Timing Adjustments on Regulated Emissions from Four Biodiesel Fuels", *Transportation Research Record* (in press)

Nguyen, L.; Liu, L.; Assefa, S.; Wolverson, C.; Schneider*, W. F.; Tao, F.*; "In situ studies of structural evolution of model catalyst Rh(110) at atomic scale during catalysis"; *ACS Catalysis*, 2016 (accepted)

Huang, W.; Zhang, S.; Tang, Y.; Li, Y.; Nguyen, L.; Shan, J.; Xiao, D.; Gagne, R.; Frenkel, A. I.; Tao, F.* "Low-temperature transformation of methane to methanol on single sites anchored on internal surface of microporous silicate in liquid," *Angew. Chem. Int. Ed.* 2016, in press. DOI: 10.1002/anie.201604708R1

Newest Grant

C&PE is excited to report that Dr. Amir Masoud Kalantari-Dahaghi's research lab (Computational Earth Science and Smart Analytics Lab (CESSAL)) has received \$5,350,000.0 in-kind software gift from KAPPA, Rock and Fluid Dynamics and Lloyd's Register.

KAPPA is a leading petroleum engineering software company that offers industry standard integrated software platform (KAPPA Workstation) for the analysis of dynamic data. It includes modules for Pressure Transient Analysis (Saphir NL), Rate Transient Analysis (Topaze NL), full field numerical modeling (Rubis) and Formation Testing (Azurite). The freestanding Production Logging (Emeraude) and Field Performance Analysis software (Citrine) (Donation size: \$3,000,000.)

Rock Flow Dynamics (RFD) offers the next generation of advanced black oil, compositional and thermal numerical simulators (tNavigator) with a record breaking parallel supercomputing engine (Donation size: \$2,250,000.)

Lloyd's Register has provided us with IP package, which is an industry standard for petrophysical analysis (Donation size: \$100,000.0).

This gift will be a wonderful boost for Dr. Kalantari and his research group in the CESSAL lab. Congratulations!

Upcoming Events

The KU Climate Survey is now available. This is not about global climate change, it's about the climate here on campus. The results could have strong impacts on the way students' needs are addressed, so your voice is needed! Please complete the survey as soon as you can ([LINK](#))

Sept 22nd: Graduate Seminar | Wai-Lun Chan from Physics and Astronomy

Sept 29th: Graduate Seminar | Xianglin Li from Mechanical Engineering

Oct 1st: Open House for Undergraduate Engineering Programs 8:30am ([LINK](#))

Oct 21: Rock Chalk Research Symposium— Show off your skills to our prospective graduate students during the School of Engineering Open House. Open to both undergraduates and graduate students. Must register by Oct 6th. ([LINK](#))

Oct 21st: Open House for Engineering Graduate Programs ([LINK](#))

Check the [WEBSITE](#) for more events

Quote of the Week:

“Life has many ways of testing a person's will, either by having nothing happen or by having everything happen all at once.”

-Paulo Coelho

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This newsletter is created and distributed by the C&PE department representative, Martha Kehr: mkehr@ku.edu. If you would like to be removed from our mailing list, please contact cpe@ku.edu.