

KU Discovery & Innovation

News from KU Research

June-July 2014

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KU to Recognize Research Pioneer August 6



At the time of his death in 2012 at age 89, **Richard K. Moore was widely recognized as a pioneering researcher** in the field of radar remote sensing of the earth. During more than 30 years on the KU faculty in Electrical Engineering and Computer Science, he founded the interdisciplinary Remote Sensing Laboratory and advised more than 100 graduate students. His research resulted in scientific instruments being placed aboard NASA and other agency satellites for collecting data and improving our understanding of the oceans and the atmosphere.

In honor of these and other achievements, the Mercury Conference Room on the third floor of Nichols Hall will be dedicated August 6 as the "Richard K. Moore Conference Room." A 3 p.m. ceremony in the Ron Evans Apollo Auditorium at Nichols Hall will be followed by a plaque unveiling and a reception in the Nichols Atrium. The event will be open to colleagues, alumni, friends, and the public. More information will be available as the date approaches.

Vice Chancellor for Research Search Committee Named

Provost and Executive Vice Chancellor Jeff Vitter has appointed a search committee to begin the process of choosing a successor to Steve Warren as vice chancellor for research. Danny Anderson, dean of the College of Liberal Arts and Sciences, will chair the committee, which held an organizational meeting on May 15.

Vitter said "a national search firm will be selected in the coming weeks to assist the search committee in finding the very best candidates to bring to campus next academic year for interviews." Serving on the committee with Anderson are:

- **Arvin Agah**, associate dean, School of Engineering
- **John Colombo**, director, Life Span Institute
- **Dianne Durham**, professor, Otolaryngology, KU Medical Center
- **LaVerne Epp**, executive chairman, Bioscience & Technology Business Center
- **Diane Goddard**, vice provost, Administration and Finance
- **Julie Goonewardene**, associate vice chancellor, KU Innovation and Collaboration
- **Erik Lundquist**, professor, Molecular Biosciences
- **Nancy Muma**, chairperson and professor, Pharmacology & Toxicology
- **Belinda Sturm**, associate professor, Civil, Environmental, and Architectural Engineering
- **Tom Taylor**, Roy A. Roberts Distinguished Professor, Ecology & Evolutionary Biology
- **Rodolfo Torres**, associate vice chancellor, Office of Research



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Leadership Transition in July at TORP

Russ Ostermann, associate professor and associate chair of the Department of Chemical and Petroleum Engineering, has been named interim director of KU's Tertiary Oil Recovery Program (TORP). The move is effective July 1.

Ostermann succeeds Jenn-Tai Liang, professor of chemical and petroleum engineering, who has accepted a faculty position at Texas A&M University. A national search for the permanent director will begin soon.

TORP is a research center whose mission is to increase the extraction of crude oil from existing and largely depleted fields. Tertiary recovery methods include water flooding, chemical flooding and carbon dioxide injection. The program reports to the KU Office of Research.

Ostermann joined the faculty at KU in 1992. His academic background includes a bachelor's degree and doctorate in chemical engineering from KU. He is director of petroleum engineering programs in the department and the inaugural recipient of its Don W. Green Teaching Fellowship.

"Russ is a good choice because he knows TORP and is an active researcher, with 10 years of continuous funding from the National Science Foundation," said Joe Heppert, associate vice chancellor for research. "We appreciate his willingness to serve as interim director and are grateful to Jenn-Tai for all he has done to advance tertiary oil recovery research at KU."



East Youngberg Parking Being Rebuilt

Persons coming to Youngberg Hall this summer should allow extra time for their visits. The entire east parking area is being rebuilt (above) during June and July and is closed. The west parking area remains open and four visitor stalls have been created. Permit parking is available at nearby Nichols Hall, and the campus bus route includes stops at the corner of Irving Hill Road and Constant Avenue.



Lewis joined in a Television Critics Association Winter Press Tour last January with Bill Allen, a D-Day veteran, NOVA producer/director/writer Doug Hamilton, and others. Photo: Rahou Ghose / PBS

KU's Adrian Lewis Recounts Meaning of D-Day for National TV Audience

"D-Day's Sunken Secrets," a two-hour NOVA program broadcast by PBS on May 28, included military analysis of the 1944 Normandy invasion by Adrian Lewis, professor of history and a retired U.S. Army officer. For the NOVA program, he described the perils of Omaha Beach (below), rode a submersible to examine sunken tanks offshore, and provided expert commentary on the meaning of the battle.

Lewis is the author of *Omaha Beach: A Flawed Victory* (2001), considered the best analysis of the doctrine and planning behind the battle.



"[World War II] is the most significant event of the 20th century, bar none" said Lewis for the NOVA program. "Nothing comes close to it in terms of shaping the world that we live in. So, when you stand at that cemetery [overlooking Omaha Beach], *these* are the men who made the difference. *These* are the men who did more to shape the world we live in right now than anybody else. You should understand that."

"D-Day's Sunken Secrets" can be viewed [online](#) in its entirety. It may also be purchased from PBS as a DVD.

Reminder: SIG Level I Deadline Dates

The next deadline for [Level I Strategic Initiative Grant](#) proposals is Monday, September 15. The subsequent deadline will be February 15, 2015. More information will be posted as the dates approach.

\$25 Million Alaska Assessment Award Largest in KU History; Extends to 2020

KU's Achievement & Assessment Institute has received a \$25 million award from the Alaska Department of Education & Early Development to develop and administer customized assessments for Alaska's public schools. The [agreement extends through June 2020 and is the largest award in KU history](#).

"The Institute's excellent reputation is growing," said Chancellor Bernadette Gray-Little, "both in this country and elsewhere. Educators and policymakers need tools that demonstrate classroom performance and student progress in meaningful ways. It's impressive that states such as Alaska and Kansas are turning to AAI for these tools and forming long-term partnerships with KU."

The Alaska assessments, developed by AAI's Center for Educational Testing & Evaluation with computerized delivery systems created by the Institute's Agile Technology Solutions, will provide parents, students and educators with information about student achievement in reading, writing and mathematics – subjects fundamental to daily life, the workplace, K-12 schools, the military, apprenticeships, technical schools and colleges. Assessment results will also help the state and school districts determine where to place resources for struggling students.

AAI will provide customized computer-based assessments for grades 3-10 that align with the Alaska Standards in English language arts and mathematics, adopted in 2012.

"We are honored that the state of Alaska has entrusted this important work to us," said Neal Kingston, director of AAI and professor in the Department of Psychology and Research in Education in the School of Education.

Marianne Perie, director of CETE, added "A lot of work that has been done in Kansas can be applied to our work in Alaska. We will have additional lessons learned there that we can apply to Kansas. I foresee a fruitful partnership among AAI, Kansas and Alaska."

Alaska educators will play integral roles in the process of customizing the assessments, including reviewing the assessments for bias and cultural sensitivity, and setting the scoring thresholds for levels of achievement. Starting this summer, AAI passage-development experts will lead workshops devoted to crafting original passages that reflect the distinctive Alaska experience.

KU Researcher Kudos

- **Chip Taylor**, Ecology and Evolutionary Biology, received one of four [2014 Growing Green Awards](#) in May from the Natural Resources Defense Council and the Berkeley Food Institute. The [video presentation for the awards program](#) highlights Taylor and Monarch Watch at the 8:47 mark. On June 11, a group of high school students affiliated with KU's Math and Science Center (part of the [Center for Educational Opportunity Program](#)) planted butterfly-friendly milkweed plants at the Governor's Mansion in Topeka.
- Also on the subject of endangered pollinators, [bees have returned to the Natural History Museum](#), inhabiting one of its most popular exhibits. The new colony replaces one that fell victim to the unusually harsh winter. Watch the new ["Bee Tree" web cam](#) to check up on the hive's progress.
- **Paul Hanson**, professor chemistry, presented a [KU Innovation and Collaboration Proof of Concept Fund](#) seminar June 10. The topic was "The Use of High Capacity Magnetic Nanoparticles for the Generation of Compound Libraries in Pharmaceutical Discovery Research." He was joined by Patrick Kearney, founder & CEO of HD Sciences.
- **Randall Logan**, Pharmaceutical Chemistry, and **Christopher Robinson**, American studies, received the 2014 Marnie and Bill Argersinger Prize for outstanding doctoral dissertations.
- Nineteen KU students have received \$1,000 [Undergraduate Research Awards for faculty-mentored research and creative projects](#) this summer. The competition is coordinated by the Center for Undergraduate Research and funded by the College of Liberal Arts & Sciences, the Office of Research, Undergraduate Studies, and the Office of the Provost. The 19 research award recipients are:
 - **Cameron Arnold**, petroleum engineering
 - **Taylor Atkinson**, biochemistry
 - **Thomas Boatright**, interdisciplinary computing
 - **Hannah Boyd**, ecology and evolutionary biology
 - **Elizabeth Brock**, applied behavioral science
 - **Ashley Farris**, biochemistry
 - **Haley Fetters Crouch**, industrial design
 - **Jamie Fuller**, anthropology
 - **Nadia Hamid**, chemistry
 - **Clint Jensen**, psychology and film & media studies
 - **Brendan Martin**, ecology and evolutionary biology
 - **Kristin Miller**, applied behavioral science, communication studies
 - **Paige Miller**, biochemistry
 - **Kathryn O'Nele**, chemistry
 - **Samuel Parrilla**, music composition, education and theory
 - **Mia Phillips**, ecology and evolutionary biology
 - **Julia Reynolds**, history of art
 - **Quincy Wofford**, interdisciplinary computing
 - **Yichi Zhang**, psychology



Research Award Named for Steve Warren

Steve Warren (center), professor of applied behavioral science and former vice chancellor for research, was recognized June 3 for his seven years of research leadership at KU. At the reception in Nichols Hall, Warren is flanked by Chancellor Bernadette Gray-Little and Jeff Aubé, University Distinguished Professor of Medicinal Chemistry.

At the ceremony, the chancellor was joined at the podium by Provost and Executive Vice Chancellor Jeff Vitter, as well as LaVerne Epp, executive chairman of the Bioscience & Technology Business Center at KU. At the conclusion of the program, Mary Lee Hummert, interim vice chancellor for research, announced that KU's annual research achievement award for academic staff will be named in Warren's honor.



Each year the Kansas City Area Life Sciences Institute (KCALSI) and the veterinary schools at the University of Missouri and Kansas State University join forces to offer a symposium on key issues in the animal health industry. **This year's event is Monday, August 25** from 8 a.m. to 2 p.m. at the Kansas City (MO) Convention Center. It will take place in conjunction with a tech transfer program, an industry dinner, and an investment forum the next day. **Contact KCALSI for more information.**

KU Research Notes

Next Thursday Research Topic Sessions is July 10

"Establishing Service Rates" is scheduled for the next Thursday Research Topics on July 10. The presentation will be made by **Elizabeth Bennett-Monroe**, finance manager, KU Research Core Support Labs. All TRT programs take place at 11-11:50 a.m. in the Simons Laboratories Auditorium. The program, sponsored by KU Research, is free and open to interested staff members.

Staff Additions, Changes in Research Administration

- Four new grant specialists joined Post-Award Services in recent months. They are **Ruth Nzoiwu**, Team 1; **Patty Shay** and **Sherbert Harvey**, Team 2; and **Matt Dollar**, Team 3. All come to Post-Award Services with previous grants management experience.
 - **Elena Ivanov** is a new grant specialist in Pre-Award Services, Team 3. She has previous grants management experience, most recently as executive director of the Douglas County AIDS Project.
 - **Michelle Glorioso** and **Matthew Stevens** will join Pre-Award Services in June. They will be assigned to a team following training.
 - Two Pre-Award Services grant officers have been named Team Leaders: **Dan Coonfield**, Team 2, and **Megan Todd**, Team 3. Current Pre-Award Services teams are as follows:
 - **Team 1**
Brad Bernet (Lead), Kim Wittman, Jessica Small
 - **Team 2**
Dan Coonfield (Lead), Jessica Brown, Jill McMillan
 - **Team 3**
Megan Todd (Lead), Jenni Wiles, Elena Ivanov
- Email kucrpremgmt@ku.edu for proposal assistance. Your team leader will then assign a grant specialist to assist you.
- **Jocelyn Isley** is the new assistant coordinator with the Human Subjects Committee Lawrence (HSCL). She reports to Stephanie Dyson Elms and was previously the HSCL graduate assistant. She received an M.S. degree in counseling psychology this spring at KU.

KCALSI Annual Dinner Focus: Technology

The theme for the 2014 KCALSI annual dinner is “Going Viral: Technology Integration in Healthcare.” It is scheduled for Tuesday, September 9 at the Arvest Bank Theatre at the Midland in Kansas City (MO).

New technology platforms, especially those from consumer electronics, have the potential to both decrease healthcare costs and to increase the quality of care. Mobile medical applications are placing more personalized data in the hands of the individual. Investment in health information technology, in the form of electronic medical records, is the first wave of technology integration. Finding meaningful, efficient methods for sharing this information with health professionals is a logical next step.



The dinner speaker will be Daniel Kraft, a Stanford and Harvard-trained physician-scientist, inventor, entrepreneur and innovator. The title of his talk is “Reinventing the Future of Health and Medicine: Where Technology Can Take Us.” Kraft is founder and executive director, Exponential Medicine (formally FutureMed); medicine track faculty chair, Singularity University; founder and CEO, IntelliMedicine and Bioniq Health; and inventor of the MarrowMiner.

Regional Competitiveness Summit in July

The Kansas City region has been actively engaged in the North American Strategy for Competitiveness (NASCO) since its founding in 1994. While initially focused on logistics and transportation, more recent activities have included the life sciences and potential partnerships in life sciences between Canada, Mexico, and the United States.

NASCO will hold a regional competitiveness summit July 22 from 11 a.m. to 4 p.m. at the Kauffman Foundation Conference Center in Kansas City (MO). Speakers on a variety of topics include Flavio Díaz Mirón, ProMéxico; Bruce Harsh, Office of Supply Chain, U.S. Department of Commerce; Birgit Matthiesen, Canada-U.S. Cross Border Business Affairs, Arent Fox LLP; and Rep. Agustín Barrios Gómez of the Congress of the United Mexican States. A reception will follow in recognition of the 20th anniversary of the North American Free Trade Agreement (NAFTA).

More information about the summit, including online registration, can be found at the [NASCO site](#).



KU Students Launch Innovation Forum

A dedicated group of students at the KU Medical Center and the Lawrence campus will launch a regular, ongoing innovation forum July 1 called COLLAB Brew.

Patterned after the Kauffman Foundation’s 1 Million Cups initiative, COLLAB Brew at KUMC will take place from noon to 1 p.m. on the first Tuesday of each month at the Beller Conference Center in the Hemenway Building.

In September, COLLAB Brew sessions will also take place on the second Tuesday of each month at Lawrence in KU Catalyst, a space set aside for students in Phase II of the Bioscience & Technology Business Center. [KU Catalyst](#) is a program of the School of Business and its Center for Entrepreneurship, directed by Wally Meyer.

Calendar details and other information can be found at [the COLLAB website](#), where you can register to attend programs and sign up for email announcements.

The COLLAB Brew format is simple: two innovators will present each week, one from KU and another from the area, e.g., a student, researcher, startup, small or large established business, community organization. Each presentation is up to six minutes long, followed by audience questions and conversation with the presenters.



COLLAB organizers include Cate Wisdom (left), a bioengineering doctoral student and Self Graduate Fellow at Lawrence, and Maria Iliakova, an M.D./Ph.D. candidate

at KUMC. A third co-founder of the student organization is Isabella Fuentes, a Ph.D. candidate in neuroscience.

In addition to Innovation Station, COLLAB also offers a TechU program on request. It features focus groups of students and faculty for assessment of business products. At the first TechU on May 1, three startup companies showed their healthcare apps to 23 students and healthcare professionals.

Upcoming Events

Additional details are available at the [KU Calendar](#).

JULY 1

Inaugural COLLAB Brew Innovation Forum

Noon – 1 p.m.

Beller Conference Center, Hemenway Building
KU Medical Center

JULY 10

Thursday Research Topics: “Establishing Service Rates”

11 – 11:50 a.m.

Simons Laboratories, Auditorium

AUGUST 6

Dedication: Richard K. Moore Conference Room

3 – 4:30 p.m.

Nichols Hall, Ron Evans Apollo Auditorium and Atrium

AUGUST 19

KUIC Proof of Concept Seminar: Mark Fisher and John Karanicolas, “Accelerating the Drug Discovery Pipeline . . .”

Noon – 1:30 p.m.

1015 Orr Major Building, KU Medical Center

AUGUST 25

**2014 Animal Health Research Symposium:
Antibiotics: Choosing the Path of Least Resistance**

8 a.m. – 2 p.m.

Kansas City (MO) Convention Center

SEPTEMBER 9

**Kansas City Area Life Sciences Institute Annual Dinner:
Going Viral: Technology Integration in Healthcare**

Speaker: Daniel Kraft, “Reinventing the Future of Health
and Medicine: Where Technology Can Take Us”

Arvest Bank Theatre at the Midland, Kansas City, MO

SEPTEMBER 15

Deadline: Strategic Initiative Grants Level I Proposals

SEPTEMBER 16

**Hall Center Humanities Lecture Series: Katherine Boo,
“Behind the Beautiful Forever”**

7:30 p.m.

Kansas Union, Woodruff Auditorium

SEPTEMBER 22

Large Data Management Genomic Biodiversity Summit

9 a.m. – 4:30 p.m.

Spooner Hall, The Commons

OCTOBER 7

**Hall Center Humanities Lecture Series: John Symons,
“What Can We Teach Our Posthuman Descendants?”**

7:30 p.m.

Spooner Hall, The Commons

OCTOBER 14

Save the Date: KU Entrepreneurship “Boot Camp”

Time and Location TBA

OCTOBER 23

KU Grant Coordinators Quarterly Meeting

10:30 a.m. – Noon

Simons Laboratories, Auditorium

NOVEMBER 17-13

Global Entrepreneurship Week

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