President’s Monthly Research and Development Highlights

New Radar Innovations Laboratory (RIL)

Groundbreaking ceremonies for the new Radar Innovations Laboratory (RIL) took place on October 30, 2012 with several local, state and national dignitaries in attendance. The 35,000 square foot state-of-the-art facility, dedicated to advancing OU's radar program, will include a large microwave lab, high-bay garage, prototype fabrication facilities, machine shop, two precision anechoic chambers, experimental observation deck, and a unique "Ideas Room" to foster collaboration and innovation. The RIL will be located just east of the National Weather Center and is expected to be completed by the end of 2013.

Discovery of a “Super-Jupiter”

John Wisniewski (Physics & Astronomy) is a member of the international team reporting the discovery of a “Super-Jupiter” around the massive star Kappa Andromedae. The gas giant has a mass of about 13 times that of Jupiter and an orbit somewhat larger than Neptune’s. The host star has a mass 2.5 times that of our Sun, making it the highest mass star to ever host a directly imaged planet. The host star can be seen with the naked eye in the constellation Andromeda at a distance of about 170 light years. Wisniewski, who is helping to analyze follow-up observations of the new planetary system, says that this will open up new research opportunities for undergraduate and graduate students at the university.
The Faculty Recognition Program

The Faculty Recognition Program celebrates achievements in research and creative activity on the Norman Campus (including Norman Campus programs at OU-Tulsa) via the provision of monetary awards to those leading the associated activities. It comprises a wide variety of programs recognized by the National Research Council and Association of American Universities as prestigious at the national level, and also includes activities specific to the goals of Aspire 2020, which are to transform Norman Campus research competitiveness, engagement and culture.

This particular Recognition Program is designed to reward researchers for pursuing programs considered by the National Research Council (NRC), Association of American Universities (AAU), and Center for Measuring University Performance (CMUP) to be prestigious at the national level and thus important as metrics for success, including membership in AAU, which is an OU aspirational goal. Similar lists are utilized by other academic institutions to recognize faculty achievement and encourage activities that enhance institutional prestige.

Current recipients of all awards from the Recognition Program for Exceptional Achievement in Research and Creative Activity — Norman Campus & Norman Campus Programs at OU-Tulsa are listed below.

Kevin Butterfield (Classics); David Vishanoff (Religious Studies); Mary Sue Backus (Law); Alan McPherson (International & Area Studies); Andrew Fagg (Computer Science); Shaorong Liu (Chemistry & Biochemistry); Zhisheng Shi (Electrical & Computer Engineering); Ann West (Chemistry & Biochemistry) and Kyle Harper (Classics & Letters).

For more information about the Recognition Program for Exceptional Achievements in Research and Creative Activity program, please visit the following link: http://vpr.norman.ou.edu/VPR-research-awards/recognition-program-exceptional-achievements-research.

Archaeological Field Work

Using an award from the Bureau of Land Management (BLM), Las Cruces, New Mexico, Patricia A. Gilman (Anthropology) and a crew of graduate students have just completed archaeological field work that will provide a better understanding of how ancient people lived in areas outside of heartlands. The grant also supports a graduate student to write the technical report to the BLM.
President’s Monthly Research and Development Highlights

James Henry Breasted Prize for Best Book in English

The American Historical Association has awarded University of Oklahoma educator Kyle Harper with the prestigious James Henry Breasted Prize for his book, *Slavery in the Late Roman World, AD 275-425*, published by Cambridge University Press in 2011, marking the second award this year for the book. Harper, associate professor in the Department of Classics and Letters and the director of OU’s Institute for the American Constitutional Heritage, earlier was presented the Classical Association of the Middle West and South’s Outstanding Publication Award for the same book.

Engineering Outreach

John Meier (ARRC) was recently invited to speak about engineering to several groups of 8th grade students at the Belle Isle Middle School in Oklahoma City, OK. In addition to explaining what he does personally as an engineer, Meier had the opportunity to inform students about engineering opportunities at OU and the Advanced Radar Research Center (ARRC). He also showcased the Atmospheric Imaging Radar (AIR). To give the students an idea of what engineering is like, Meier had the students build the tallest tower they could out of spaghetti and marshmallows. Everyone enjoyed the experience with several expressing a strong interest in pursuing a career in engineering.

Lifetime Achievement Award

The organizing committee of the International Conference on Agile Manufacturing (ICAM-2012) has awarded Farrokh Mistree (Aerospace & Mechanical Engineering) the Lifetime Achievement Award for his noble services to engineering education and research at the Mechanical Engineering Department IIT (BHU), Varanasi, UP, India. Mistree will be delivering a keynote address on December 18, 2012.
Fellow of the American Physical Society

Yun Wang (Physics & Astronomy) was recently elected as a Fellow of the American Physical Society. The APS Fellowship Citation for Yun Wang is: "For her leadership in dark energy research, especially in developing a robust and consistent framework for analyzing and interpreting cosmological data to place model-independent constraints on dark energy, and in optimizing the science return of planned space missions to probe dark energy."

26th International Book Fair in Guadalajara 2012, Mexico

Marcelo Rioseco (Modern Languages, Literatures, & Linguistics) was invited as an author to the 26th International Book Fair in Guadalajara 2012, Mexico (26 Feria Internacional del Libro de Guadalajara) by the Chilean Government. The book fair is the biggest one in the Hispanic world. This event will take place between November 24-December 2, 2012. Chile will be the guest of honor and will have the main stand at the fair and is also bringing a very large delegation. There will be over 350 writers, intellectuals, critics, and musicians and will also have an exhibition with 20,000 books published by Chilean authors. Rioseco will be on an international panel with two Latin American writers (Yuri Herrera from Mexico and Leonardo Sanhueza from Chile).
Faculty Recognition and Honors

- Ari Berkowitz (Biology) was elected a Councilor of the International Society for Neuroethology in October 2012.

- Joyce Coleman (English) was elected in October as a Life Member of Clare Hall, a college at Cambridge University where she spent a sabbatical year in 2012-2013.

- Emily Johnson (Modern Languages, Literatures & Linguistics) was interviewed by Rob Sachs of Voice of Russia about her 2006 book *How St. Petersburg Learned to Study Itself* for the show "Culture Room." The interview, which was broadcast on November 1, 2012, can be found online at: [http://voicerussia.com/radio_broadcast/58461471/93211418.html](http://voicerussia.com/radio_broadcast/58461471/93211418.html).

- A. Robert Lauer (Modern Languages, Literatures & Linguistics) was renewed for a three-year term as a Member of the Board of the Spanish-based Cervantes Association (Asociación de Cervantistas).

- Clemencia Rodriguez (Communication) delivered the key note address titled "Five Challenges in the Field of Alternative/Radical/Citizens’ Media Research" to an audience of about 900 European communication academics. The plenary opened the IV Conference of the European Communication Research and Education Conference (ECREA) held in Istanbul, Turkey, October 24 - 27, 2012. The conference theme was “Social Media And Global Voices” and it aimed to open up a vibrant discussion in the European academic scene in the areas of new media, peace and conflict journalism, network society, convergence culture, cultural spaces of human interaction, social media use and access, media as a platform for democracy, legislative restrictions of the old and new media, limits of artistic expressions, issues of multiculturalism, ubiquity of the internet and digital divide, local media as community builder, diasporic media, transnational media, and the political economy of the media.

- Todd Wuestewald (Criminal Justice College of Liberal Studies) was one of a small group of experts that have been invited by the U.S. Department of Justice, Office of Homeland Security, COPS Office, and Johns Hopkins University to participate in the National Summit on Multiple Casualty Shootings at the Federal Law Enforcement Training Center in Glynco, GA, December 11-13, 2012. The summit will bring together about 25 national experts from law enforcement, medicine, education, public health, law, and academia to open a dialogue on the prevention of mass shootings and work toward the setting of national policy.
October New Awards

- **Ami Arthur**
The Cooperative Institute for Mesoscale Meteorological Studies
“Basin Delineation for Thailand”
WDT
$3,848

- **Mohammed Atiquzzaman**
School of Computer Science
“University of Oklahoma SAFE-T Project”
OK-SAFE
$55,000

- **Susan Baley**
Fred Jones Jr. Museum of Art
“The pARTner Project”
OK-ARTS
$5,000

- **Kash Barker**
School of Industrial & Systems Engineering
“Improved Acquisition for System Sustainment: Multi-objective Tradeoff Analysis for Condition-Based Decision Making”
DOD-NPS
$118,979

- **Ronald Barnes**
School of Electrical & Computer Engineering
“University of Oklahoma Software Development & Integration - Motorcycle Database Project”
OK-SAFE
$5,000

- **Ronald Barnes**
School of Electrical & Computer Engineering
“University of Oklahoma Software Development & Integration”
$155,000

- **Edward Baron**
Department of Physics & Astronomy
“Late Time STIS Spectroscopy of the Extremely Nearby Type Ia SN 2011fe”
NP-STSCI
$10,281

- **Heather Basara**
Department of Geography
“Preventing, Controlling, and Reducing Exposure Related to Tobacco Use”
HSC
$125,000

- **Robert Brooks**
Archaeological Survey
“Oklahoma Highway Cultural Resource Program, FY 2012-2013”
OK-TRAN
$915,051

- **Amy Cerato**
School of Civil Engineering & Environmental Science
“Real-Time Monitoring of Slope Stability in Eastern Oklahoma”
OK-TRAN
$88,531

- **Adam Clark**
The Cooperative Institute for Mesoscale Meteorological Studies
“Development and Application of 3-Dimensional Object Algorithms to High Resolution Forecasts”
DEVTESTBEDCTR
$11,859

- **Theodis Dancy**
Department of Educational Leadership & Policy Studies
“STEMing the Tide: Reconsidering Research on Identity and Development of Boys and Men of Color”
UN-TEMPLE
$50,889

- **Kirsten DeBeurs**
Department of Geography
UN-SDSU
$56,350

- **Karl Hambright**
Department of Biology
“Analysis of Florida and Northern Strain Largemouth Bass Using Microsatellites”
OK-WILD
$15,001
October New Awards

- Ji Hong  
  Department of Educational Psychology  
  “Exploration of Pre-service Beginning Teachers' Professional Identity Development and its Relation to their Resilience”  
  APSYCH  
  $7,500

- Yang Hong  
  School of Civil Engineering & Environmental Science  
  “Advancing Multi-scale Landslide Hazard Prediction by Integrating High Resolution Remote Sensing Data and Subsurface In-Situ Monitoring”  
  UN-CSM  
  $53,885

- Diane Horm  
  TULSA-Department of Instructional Leadership & Academic Curriculum  
  “Child Assessment for CareerAdvance: A Dual-Generation Program's Effects on Families and Children”  
  UN-NWU  
  $48,000

- Yiqi Luo  
  Department of Microbiology & Plant Biology  
  “An Analytic Framework to Dissect Modeled Carbon Storage Capacity into a Few Tractable Components”  
  BATTELLUT  
  $50,000

- Renee McPherson  
  Oklahoma Climatological Survey  
  “The Impact of Uncertainty Information on Tornado Warning Response: Developing Recommendations for Warning Best Practices”  
  DOC-NOA  
  $67,703

- Paula McWhirter  
  Department of Educational Psychology  
  “Practicum Placement Program”  
  NP-MUSCOGE  
  $18,169

- Pakize Pulat  
  Engineering Dean  
  “LSAMP - Bridge to the Doctorate - University of Oklahoma Cohort VI”  
  OSU  
  $980,500

- Hazem Refai  
  TULSA-School of Electrical & Computer Engineering  
  “The Study of Vehicle Classifications with Focus on Motorcycles”  
  OK-TRAN  
  $86,568

- Mark Shafer  
  Oklahoma Climatological Survey  
  “Water Reservoir Data and Visualization Tools for the Southern Great Plains”  
  DOC-NOA  
  $44,056

- Thomas Lee Williams  
  Graduate College Dean  
  “Effects of Viable Ethics Instruction on International Students”  
  NP-COUNCILGRAD  
  $24,000

- May Yuan  
  College of Atmospheric & Geographic Sciences Dean  
  “Centerline Database Project for City of Norman”  
  CC-NORM  
  $6,072

- Md Zaman  
  Engineering Dean  
  “Recommended Fatigue Test for Oklahoma Department of Transportation”  
  OK-TRAN  
  $132,749

- Guifu Zhang  
  School of Meteorology  
  “Advanced Signal Processing and Physics-Based Data Fusion to Improve Target Detection and Recognition”  
  21CSi  
  $35,000