President’s Monthly Research and Development Highlights

Publications

- Polity has published *Antonio Negri (Key Contemporary Thinkers)* by Timothy Murphy (English). It is set for release on April 10, 2012.
- Prentice Hall has published *Georgia Politics in a State of Change* by Charles S. Bullock III and Ronald Keith Gaddie (Political Science), March 2012.
- Methuen Drama has published *Voice and the Young Actor* by Rena Cook (Drama). It is set for release on April 15, 2012.

Student Recognition

- David Bodine (Ph.D. student, Meteorology and M.S. student, Electrical Engineering) has been selected into the National Science Foundation's East Asia and Pacific Summer Institute (EAPSI) for U.S. Graduate Students. The EAPSI provides students with first-hand research experiences, an introduction to the science, science policy, and scientific infrastructure of the participating country, and an orientation to the society, culture and language. The Japanese institute will last approximately ten weeks, from June to August 2012.
- Tiara Chapel (M.S. student, Industrial & Systems Engineering) has been selected as a 2012 GEM Fellow, funded by the GEM Consortium, a network of universities and companies working to increase the participation of underrepresented groups in graduate education. Tiara is working with Dr. Kash Barker in reliability-centered maintenance decision making and will be interning with the MITRE Corporation this summer as part of her GEM Fellowship.
- Andre Lessa (Ph.D. student, Physics) is the first recipient of a national award from the American Physical Society for outstanding dissertation in theoretical particle physics. Lessa attended OU on the Brazil CAPES Fulbright Fellowship from 2008 to 2011 and is currently a postdoctoral associate at the University of Sao Paolo in Brazil. Dr. Howie Baer is Lessa’s dissertation adviser.

Digital Library of Latin Texts

The American Philological Association has submitted a grant in the amount of $159,000 and will be funded by the Mellon Foundation. It is a planning grant to lay the foundations for the Digital Latin Library, an extensible, open, digital resource for scholars of Latin literature.
Science Nation

Caryn Vaughn's (Zoology) work with freshwater mussels was featured in the National Science Foundation's (NSF) online magazine Science Nation. With support from the NSF, Vaughn studies mussels' role in their environment. At the Aquatic Research Facility, Vaughn works with the mussels in large bathtub-sized tanks where she and her team have recreated the stream environment. In this lab setting, they can control such factors as temperature and flow rate. The full report and video can be viewed online http://www.nsf.gov/news/special_reports/science_nation/musselloss.jsp

Urban Design Competition

The University of Oklahoma joined Harvard University as one of only two universities with multiple teams honored in the 10th annual Urban Land Institute Gerald D. Hines Student Urban Design Competition. One OU team received an “Honorable Mention First Place” and the other an “Honorable Mention Overall Merit” in the competition, placing them both in the top 10 percent of the field, which consisted of 139 graduate-level teams from 64 universities throughout United States and Canada. The teams were honored for their urban design and development proposals for a 16.3-acre site owned by the U. S. Postal Service in downtown Houston. The competition teams were made up of students from a variety of disciplines representing four different programs within the OU College of Architecture as well as the Price College of Business MBA Program.

The Veranda Team Members

- Adelle York, Bachelor of Architecture (B.Arch) – team leader
- Aric Yarberry, Bachelor of Architecture (B.Arch)
- Grant Hromas, Bachelor of Architecture (B.Arch)
- Ohm Devani, Master of Business Administration (MBA)
- Ty McCarthy, Master of Regional and City Planning (MRCP)
- Faculty Advisors: Blair Humphreys and Prof. Hans Butzer

The Foundry Team Members

- Phillip Walters, Master of Regional and City Planning (MRCP) – team leader
- Alex Tyler, Master of Landscape Architecture (MLA)
- Grant Evert, Master of Architecture (M.Arch)
- Preston Kunz, Bachelor of Architecture (B.Arch)
- Shane Hampton, Master of Regional and City Planning (MRCP)
- Faculty Advisors: Blair Humphreys and Prof. Hans Butzer
President’s Monthly Research and Development Highlights

**Patents**


A second patent was awarded for “3D Light Surface Display,” December 13, 2011 by E&CE past and current faculty and students, Hakki Refai, Erik Petrich, James Sluss, Jr., Monte Tull, Pramode Verma, Gerard Newman, and Martina Dreyer.

The School of Drama’s production of *Spring’s Awakening* directed by Tonia Sina Ellis was invited to perform at the Region 6 Kennedy Center American College Theatre Festival. All four students advance to the National American College Theatre Festival in Washington D.C. where they will perform, display their work, study with master teachers in their field and compete for scholarships and intern opportunities. The following School of Drama undergraduate students won top honors at this festival as well:

- Kevin Percival and his partner Laurel Sein won the Irene Ryan Acting Audition Scholarship
- Brad Gray won the Excellence in Lighting Design Award for his work on Dracula
- Hana Goff won the Excellence in Scenic Design Award for her work on Dracula

Susan Shaughnessy in collaboration with World Literature Today, directed a production of Marina Carr's *By the Bog of Cats* in March to celebrate Ms. Carr as the winner of this year's 2012 Puterbaugh Award.

Jon Young has been invited to design the set for *Is he Dead* at the Creede Repertory Theatre in Creede, Colorado in June.

Judith Pender is directing *They Promised her the Moon* by Faith Broome Playwright in Residence Laurel Ollstein, April 11-13, 2012.
**President’s Monthly Research and Development Highlights**

### Faculty Recognition and Honors

- Brian Grady (Chemical, Biological & Materials Engineering) was elected a Fellow of the Society of Plastics Engineers in 2012. SPE Senior Members who are elected as Fellows of the Society are honored for their contributions in the field of plastics engineering, science or technology, or in the management of such activities.

- Hester Baer (Women’s & Gender Studies) received a Research Visit Award from the DAAD (German Academic Exchange Service) to spend summer 2012 in Berlin, Germany, completing research for her book *German Cinema in the Age of Neoliberalism*.

- Robert Nairn (Civil Engineering & Environmental Science) was elected President of the American Society of Mining and Reclamation (ASMR). Nairn will serve a three-year term on the National Executive Committee as President-Elect (2012-13), President (2013-14) and Past President (2013-14).

- Jeffrey Kelly (Zoology) was named a Fellow of the American Ornithologist's Union 2.

- Donna Nelson (Chemistry & Biochemistry) was awarded the Oklahoma Chemist Award by Representative Scott C. Martin on March 17, 2012. Nelson is only the third native Oklahoman to receive this award, and the second woman recipient since it was initiated in 1971.

- The American Institute of Aeronautics and Astronautics recently announced that S.R. Gollahalli (Aerospace & Mechanical Engineering) was selected to become an AIAA Fellow in 2012. Gollahalli will be honored at a Gala in Washington, DC. later this year.

- Yiqi Luo (Botany & Microbiology) organized a DOE workshop called "Strategies to Promote Integrated Experiment-Model Approaches to Terrestrial Ecosystem Study," held in Washington D.C. March 19-21, 2012. The workshop promotes a new philosophy of having modeling activities to guide field research activities, which in turn informs modeling activities, and explores the need of institutionalization of data-model integration.

- Deniz Eseryel and Xun Ge (Education) received a Fulbright grant to host Dr. Dirk Ifenthaler from the University of Freiburg in Germany as Scholar-in-Residence. Ifenthaler started his term at OU as a Fulbright Scholar-in-Residence in February. He will be at OU until the end of July 2012.

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**Fulbright Award**

Alan McPherson (International and Area Studies) has received a Fulbright Award and will spend the fall of 2012 in Buenos Aires, Argentina.

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February New Awards

- Jean Cate
  K-20 Center
  “K20alt (Authentic Learning and Teaching)”
  OK-EDUC
  $150,000

- Steven Cavallo
  School of Meteorology
  “Multi-Scale Predictability with a New Coupled Non-Hydrostatic Global Model Over the Arctic”
  DOD-ONR
  $158,766

- Michele Eodice
  ConocoPhillips Writing Center
  “Seniors Reflect on Their Meaningful Writing Experiences: A Cross-Institutional Study”
  NCTE
  $3,333.00

- Andrew Fagg
  Computer Science
  “Reliable Central-Nervous-System Interfaces (RCI)”
  UN-MSU
  $52,007

- Kurt Gramoll
  School of Aerospace & Mechanical Engineering
  “Demilitarization Knowledge Management Application for Transitioning the Ammunition Stockpile, Phase 2012”
  SERCO
  $79,350

- Ulrich Hansmann
  Department of Chemistry & Biochemistry
  “From Computational Biophysics to Systems Biology - CBSB12”
  US-DOE
  $10,000

- Bruce Hoagland
  Oklahoma Biological Survey
  “A Revised Land Cover Map for the State of Oklahoma”
  ARRA-OK-WILD
  $25,000

- Ben Holt
  Department of Botany & Microbiology
  “CAREER: Exploring the Mechanistic Roles of NF-Y Transcription Factors in Photoperiod-Dependent Flowering”
  NSF
  $180,000

- Yang Hong
  School of Civil Engineering & Environmental Science
  “Decision Support System for Life-Saving in Flash Flood Emergencies”
  OSU
  $50,000

- Lance Lobban
  School of Chemical, Biological & Materials Engineering
  “Development of a Process Model for the Conversion of Biomass to Boiler Fuel”
  SAIC
  $50,000

- Chuanbin Mao
  Department of Chemistry & Biochemistry
  “Acquisition of a Bio-aFM for Studying Stem Cell Niche”
  NP-OCASCR
  $112,328

- Michael McInerney
  Department of Botany & Microbiology
  “The Potential for Microbial Oil Recovery in German Oil Reserves”
  BASF
  $93,250

- Renee McPherson
  Oklahoma Climatological Survey
  “Water Decisions for Sustainability in the Arbuckle-Simpson Aquifer”
  OF-NCAR
  $91,926
February New Awards

- Amanda Minks  
  Honors College  
  "Aesthetic Interventions: Cultural Policy in Inter-American Indian Affairs, 1930 - 1960"  
  NP-OHC  
  $500

- Lisa Monroe  
  TULSA-Instructional Leadership & Academic Curriculum  
  "Oklahoma Early Childhood Education Needs Assessment"  
  SmartStart  
  $24,000

- David Schmidtke  
  School of Chemical, Biological & Materials  
  "Development of Adult Stem Cell Characterization Facilities"  
  NP-OCASCR  
  $29,516

- Prakash Vedula  
  School of Aerospace & Mechanical Engineering  
  "A Lattice Boltzmann Method For Multi-component Multiphase Flows"  
  UES  
  $60,000

- Lawrence Weider  
  Biological Station Texoma  
  "ADAPT-ENVGENOME - Environmental Adaptation of the Genome: a Daphnia Model Under Cultural Eutrophication"  
  IN-CSIC  
  $25,344