President’s Monthly Research and Development Highlights

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People

- Profs. Reid Coffman and Lee Fithian, College of Architecture, received $5,800 in service learning support to produce design alternatives for a ‘green’ elementary school in Moore, OK.
- Darrel Kingfield has been awarded a 2009 United States Geospatial Intelligence Foundation (USGIF) national scholarship for $5,000. Kingfield is a research associate with the Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) and pursuing a MS in Geoinformatics.
- W. Jackson Rushing III, Eugene B. Adkins Presidential Professor of Art History served as a juror at the Santa Fe Indian Market, National Endowment For the Art focus group, and lecture at the Allan Houser Foundation.

Funding

- Bing Zhang, Zoology, received a 5-year, $1.54 million R01 grant from the NIH to investigate cellular and molecular mechanisms of synapse function and neurodegenerative diseases.
- Prof. Kenneth Nicholas, Chemistry and Biochemistry, has recently been awarded two 3-year grants from the NSF, one of $360,000 to study metal-catalyzed nitrogenation of hydrocarbons, and the second of $390,000 to investigate catalyst evolution by dynamic templating with transition state analogs.
- Drs. Matthew Jensen (MIS, CASR) Claude Miller (Communication), and Judee Burgoon (Communication; CASR) were awarded $290,090 by the Air Force Office of Scientific Research to equip the Message Analysis and Processing Lab for research on credibility and deception in human interaction.

Technology Development

- The Zhou lab’s GeoChip, a high throughput, comprehensive microarray for specifically, sensitively, and quantitatively analyzing the functions of microbial communities from any environmental sources without culturing, has been selected as a recipient of a 2009 R&D 100 Award from R&D Magazine. The GeoChip was co-created by Drs. Jizhong Zhou, Zhili He, Liyou Wu, Joy D. Van Nostrand, Ye Deng, and all members of Dr. Zhou’s lab. The award will be presented in Orlando, FL on Nov. 12.

People

- Communication Prof. Ryan S. Bisel received the 2009 Stanley L. Saxton Applied Research Award, from the Carl Couch Center for Social and Internet Research (CCCSIR) at the University of Dayton.
- Prof. Michael R. Abraham, Chemistry and Biochemistry, will receive the 2010 American Chemical Society (ACS) Award for Achievement in Research for the Teaching and Learning of Chemistry at the 239th ACS national meeting in San Francisco in March.
- Charles Kimball, Presidential Professor and Director of Religious Studies, delivered the McBride Lecture on Faith and Literature at Oklahoma Christian University on Oct. 9, entitled, “Reading The Kite Runner and A Thousand Splendid Suns in the Context of Global Islam.”
Scholarship

- Classics and Letters Prof. Rebecca K. Huskey’s first book, *Paul Ricoeur on Hope: Expecting the Good*, was recently published by Peter Lang Publishing.
- Prof. Ronald Keith Gaddie’s new book with Charles S. Bullock III called *The Triumph of Voting Rights in the South* was published by The University of Oklahoma Press.

People

- Prof. Rajiv Dant, Professor of Marketing was recently invited to deliver the Key Note Speech at the 17th International Colloquium in Relationship Marketing held in Maastricht, The Netherlands. Among other things, Dant stressed the rising significance of relational contracting and strategic alliances among U.S. businesses as a solution to retaining and regaining world competitiveness and laid out a rigorous research agenda for scholars working in this field.
- David Bodine, School of Meteorology PhD student, won the Spiros G. Geotis Prize for best student paper at the recent AMS Radar Meteorology Conference. His paper was on the meteorological applications of the Atmospheric Imaging Radar (AIR), which is currently being developed by the ARRC.

The Arts

- Curtis Jones’s “Making Light with Things” debuted at the Malone Gallery on the campus of Troy University last month. The work is a printmaking based installation that was completed over the summer with the generous support of the Research Council. This project took over four years from start to finish and would not have made it to fruition without their assistance.

Funding

- Computer Science Prof. Qi Cheng was awarded two NSF grants, totaling $396,083 for 3 years, to study zero testing and sign determination of algebraic numbers, and complexity and algorithms of decoding algebraic codes.
- Homer L. Dodge Professor of High Energy Physics Howard Baer received a one year $130K grant from the US Department of Energy for work on the topic: From Collider Physics to Cosmology in the LHC era.
- Drs. Kianoosh Hatami and Musharraf Zaman were awarded $194,304 by the Oklahoma Transportation Center plus $75,000 cash matching from TenCate Geosynthetics Company for developing guidelines for geosynthetic reinforcement in aggregate bases in Oklahoma for improved pavement performance and service life.