

October
'12

RESEARCH TRACKS

A publication of the Office of the Vice Provost for Research
Volume IX, Issue 6

Foundation grant supports Perry Glanzer's research on college students' search for meaning and purpose

Dr. Perry Glanzer, an associate professor in the Department of Educational Administration, recently received a grant from the John Templeton Foundation to help him study the way students acquire values that give meaning and purpose to their lives.

Recent research on spirituality in higher education has found that most colleges and universities offer few resources and little support to students exploring issues of purpose and meaning. These studies also suggest that both students' faith tradition and the identity of their institution may have an impact on the prevalence and character of students' search for meaning and purpose.

In collaboration with a colleague at Calvin College, Glanzer will analyze existing survey data and perform additional interviews with students at diverse religious and secular universities. The interviews will help Glanzer and his team understand the influence of the institution and students' spiritual background on the search for meaning and purpose.

The study will also investigate the ways in which students' quests for meaning can be nurtured or inhibited by particular communities of discourse in a college setting.

Federal grant funds acquisition of nuclear magnetic resonance facility for earth science research

An interdisciplinary team of Baylor faculty was recently awarded a grant from the National Science Foundation for the purchase of solid-state nuclear magnetic resonance (NMR) spectrometer equipment.

The equipment will allow faculty and students in a variety of departments to conduct environmental, geological and biogeochemical studies on environmental samples like soil, sediment, and biomass, leading to a clearer understanding of paleoenvironments and the role of nanoscale materials in environmental processes.

The equipment can also be used to investigate the structure of pigments found in the bodies of humans and other animals. Changes in the structure of these pigments have been implicated in macular degeneration, Parkinson's disease and melanoma.

Dr. William Hockaday from the Department of Geology is the project's principal investigator. Co-investigators are Drs. Boris Lau, Dan Peppe and Steven Driese from the Department of Geology and Dr. Patrick Farmer from the Department of Chemistry and Biochemistry.



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BAYLOR
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OFFICE OF THE VICE PROVOST
FOR RESEARCH

Marlan O. Scully honored for quantum optics research

Award from The Optical Society recognizes scientist's leadership and groundbreaking research in the field of quantum optics

The Office of the Vice Provost for Research hosted an event last week to recognize Dr. Marlan O. Scully for his recent award from The Optical Society (OSA).

Scully, Baylor University Distinguished Academician of Science and Engineering and member of the National Academy of Sciences, was recently named the 2012 winner of the Frederic Ives Medal/Jarus Quinn Prize. The prize is the highest award conferred by The Optical Society and recognizes Scully's many contributions to the field of optics research.

During the lecture portion of the program, Scully presented a talk entitled "Physics and Faith," in which he outlined the compatibility of quantum mechanics with a Christian worldview.

The lecture was followed by a reception where faculty, staff and students had the chance to greet Dr. Scully and congratulate him on his prestigious award.

Dr. Scully will officially accept the medal and deliver the plenary speech entitled, "The Quantum Photocell: Increasing Efficiency via Quantum Coherence," at the OSA's annual meeting this month in Rochester, N.Y.



Marlan Scully, Ph.D. gives a lecture entitled "Physics and Faith" in the Barfield Drawing Room. Scully's lecture was followed by a reception in his honor hosted by the OVPR.

Baylor undergrad earns prestigious EPA fellowship to conduct research on environmental toxicology

David Drier, an environmental health science major, will begin work this month on his recently awarded Greater Research Opportunities fellowship from the Environmental Protection Agency. The GRO is a highly competitive, nationwide program which has awarded only 104 fellowships in the past five years, with just eight awards to students in the state of Texas.

Drier, a junior and member of the honors program, will receive tuition and stipend support during his junior and senior years, as well as a paid internship at a federal research lab this summer.

During the two-year fellowship, Drier will examine

toxicological data to evaluate current assessment models used to predict the properties of industrial chemicals. His research will contribute to his honors thesis under the direction of Dr. Bryan Brooks, professor of environmental science.

Brooks says the GRO is one of the best federal programs for undergraduate research.

"In addition to the financial support, the opportunity this internship offers to work in a federal research lab is huge," he says. "This award provides gold-standard evidence of fruit from Baylor's commitment to integrating undergraduates into active research teams."

Upcoming Events

Intellectual Property Town Hall

An informational meeting on intellectual property issues, open to all faculty members.

October 23, 2012
4:00 p.m. - 5:00 p.m.

Baylor Sciences Building
Room A.207

Contact [Jim Kephart](#) at 710-1690 for more information.

OVPR Proposal Development Workshop

A workshop designed to help faculty in all areas become more effective grant writers.

January 10, 2013 (Science faculty)
January 11, 2013 (Arts & humanities faculty)
Baylor Sciences Building, room TBA

[Click here](#) to register for this event. Seating is limited.

Contact [Blake Thomas](#) at 710-3153 for more information.

Gregory Leman named director of BRIC Innovative Business Accelerator

Hankamer professor brings over 25 years of experience in research, business, and technology commercialization.

Dr. Gregory Leman was recently named director of the Innovative Business Accelerator (IBA), a joint venture of the Hankamer School of Business and the Office of the Vice Provost for Research. The IBA is intended to help technology start-up companies grow more quickly by providing them with a range of business services.

The program will be housed in the Baylor Research and Innovation Collaborative (BRIC), the discovery park which forms the centerpiece of the Central Texas Technology and Research Park (CTTRP). Though the program will be housed in the BRIC, IBA services will be available to any high-tech company, whether or not they are part of the BRIC/CTTRP.

Leman has extensive national and international industry experience in roles spanning research and development, operations and product line management, as well as commercialization of new products.

Since 2005, Leman has served as clinical professor, director of university entrepreneurial initiatives and



the Curtis Hankamer Chair in Entrepreneurship at the Hankamer School of Business. He has worked closely with the Greater Waco Chamber of Commerce on initiatives to mentor new business leaders and bring seminars and workshops to the local community.

He has also coached more than 60 ventures in pursuit of funding through small business innovation research (SBIR) applications, angel presentations and internal board presentations.

OVPR welcomes new staff member

The OVPR is pleased to introduce the newest member of its staff, Research Project Manager Gary Stokes.

Gary joins the OVPR from University Development, where he has worked for the last 12 years. In his most recent role, he served as Director of Donor Information Services, where he designed and managed the alumni database and provided systems training and data entry supervision.

In his new position with the OVPR, Gary will provide technical support to interdisciplinary research teams, utilizing his experience in technical and scientific writing and data management and analysis. He will also assist with the assessment and evaluation of OVPR research development efforts.

Please join us in welcoming Gary and wishing him the best in his new position.

OVPR-Sponsored Speakers

Dr. Ian H. Hutchinson

**Professor of Nuclear Science & Engineering
Plasma Science and Fusion Center
Massachusetts Institute of Technology**

Lecture on Dusty Plasma
Thursday, October 25, 3:00 p.m. - 4:00 p.m.

Baylor Sciences Building, Room E.231
Reception following in E2 elevator landing.

[Click here](#) for more information

Dr. Robin A. Felder

**Professor of Pathology
University of Virginia School of Medicine
Associate Director, Clinical Chemistry
University of Virginia Health System**

*Golden Opportunities for Innovation: Ubiquitous
Healthcare and Wellness Monitoring*
Friday, October 26, 1:30 p.m. - 2:30 p.m.

Baylor Sciences Building, Room E.231
Reception following in E2 elevator landing.

[Click here](#) for more information.

Federal Grants

Opportunity Title	Due Date
<u>NEH - Collaborative Research Grants</u>	12/06/2012
<u>NASA - Lunar Advanced Science and Exploration Research</u>	12/28/2012 (LOI)
<u>NIH - Director's Early Independence Awards (DP5)</u>	12/30/2012 (LOI)
<u>NEA - Literature Fellowships: Translation Projects FY 14</u>	01/03/2013
<u>NSF - Petrology and Geochemistry</u>	01/06/2013
<u>ONR - SSBN Security Technology</u>	01/12/2013
<u>NSF - Social Psychology Program</u>	01/15/2013
<u>NSF - Research in Engineering Education</u>	01/24/2013
<u>NSF - Environmental Sustainability</u>	02/19/2013
<u>NSF - Fluid Dynamics</u>	02/19/2013

Foundation Grants

Opportunity Title	Due Date
<u>Simons Foundation - Simons Symposia (Science and Mathematics)</u>	11/15/2012
<u>American Foundation for Suicide Prevention - Standard Research Grants</u>	11/15/2012
<u>Brady Education Foundation - Research & Program Evaluations in Early Education</u>	12/14/2012
<u>Delmas Foundation - Grants for Independent Research on Venetian History and Culture</u>	12/15/2012
<u>Alexander von Humboldt Foundation - Max Planck Research Award (Life Sciences)</u>	01/31/2013
<u>American Association of Petroleum Geologists Foundation - Grants-in-aid Program</u>	01/31/2013

Search for funding with COS Pivot

The OVPR maintains a subscription to COS Pivot, a searchable database of funding opportunities in all academic areas. To search for funding in your discipline and receive email alerts with newly listed opportunities, [sign up with COS Pivot](#) today. If you have questions or would like training on using COS Pivot, contact [Blake Thomas](#) in the OVPR at 254-710-3153.

Ready to apply?

If you'd like to apply for these or other specific opportunities, contact your department's assigned [OSP coordinator](#).