

Research News

Please circulate to:

OFFICE of RESEARCH and SPONSORED PROGRAMS

April 2013

THE BEAT GOES ON

S. Bruce King

Over the past few months, I have added some new words to my daily vocabulary: fiscal cliff, sequestration, and continuing resolution. As I write, the fiscal cliff is behind us, and we are dealing with sequestration. All of these political scenarios translate into uncertainty about short-term federal budgets, especially in terms of research funding.

While not knowing how this process will unravel, I'm happy to report that the Office of Research and Sponsored Programs is maintaining all of its activities and funding opportunities to ensure that faculty are well-positioned and prepared to take advantage of new research funding opportunities when the federal budget is resolved. Spring proposals for the Science Research and Social, Behavioral, and Economic Science Funds, which support new projects of new and established faculty, have been awarded. I'd like to thank the faculty who applied as well as those who have taken their time to review proposals. We've also launched Collaborative Pilot Grants (replacing the Cross-campus Awards) to support original faculty research projects that rely on a non-WFU collaborator. All of these awards are designed to help faculty test novel ideas and gather preliminary data to build competitive external proposals.

The CRADLE program, which mentors new faculty in strategies to secure project support, is one example of faculty development initiatives supported by ORSP. ORSP also provides assistance in identifying funding opportunities and editing proposals. I hope that faculty will continue to take advantage of these opportunities and services to prepare the best possible applications for external funding. Both ORSP staff and I are ready to work with you!

How many routing forms have I completed since I've been at WFU? I don't know, but a lot, and many before PDFs. Completing this short form is an important step in proposal preparation as it documents your needs and the university's

commitment of space, money, equipment, and/or time to your project. Proposals and contracts are formal agreements between the sponsor and the university, and the routing form is read by several people to ensure that Wake Forest's role is properly defined. Take a moment to read Stephen Williams's piece on routing forms, and please submit them in plenty of time to ensure your proposal is submitted before deadline!

"MANAGING THE HYPHEN" NEW FACULTY LUNCH 2013

Julie Edelson

On 10 January, ORSP hosted a luncheon to let new faculty know about Wake Forest services and opportunities. New father and **Provost Rogan Kersh** welcomed them and reflected on their similar circumstances. He, too, is learning the ropes and meeting new demands. Time formerly devoted to teaching must now stretch to encompass other responsibilities, not least "managing the magic hyphen" in the teacher-scholar ideal. He emphasized the importance of research and other creative activities to professional identity, and with the baby and a new book, he feels he has achieved a good rhythm. He is thrilled that faculty have more than doubled submissions, especially in areas other than the sciences.

Chemistry Professor Bruce King is also new to his role as **Associate Provost for Research**. He knows that developing and teaching courses are critical in the early years, but be aware of support for your scholarly endeavors. Bruce earned a Camille and Henry Dreyfus Teacher-Scholar Award in his first five years at Wake Forest.

Director Lori Messer noted that ORSP has a combined 54 years of experience! Our website (www.wfu.edu/rsp) is a repository for much of our own and others' expertise. Lori is the authorized signatory for the university (don't sign yourself!) and can help with contracts and other areas of proposal submission.

(cont. p. 4)

INSIDE

Progress Reporting Changes	2
ORAU Opportunities	3
Qualtrics	4
CAREER Counseling	5



WAKE FOREST
UNIVERSITY

SEQUESTRATION UPDATE

Amy Comer
Julie Edelson



The Budget Control Act, which called for developing a plan to reduce federal spending, was signed into law in 2011. No agreement was reached by the 1 March deadline, and across-the-board cuts are now in effect.

While detailed plans are lacking, many federal funding agencies are looking at delaying solicitations, funding fewer awards, or reducing current awards and contracts. ORSP will keep the community updated with additional information as soon as it is received.

From NIH: “impact could include not issuing continuation awards or negotiating a reduction in the scope of your awards to meet the constraints imposed by sequestration . . . new grants or cooperative agreements may be re-scoped, delayed, or canceled, depending on the nature of the work and availability of resources. . . . To the extent that FY2013 funds for your grant or cooperative agreement are affected . . . you will be contacted by the appropriate Grant Management Officer with additional details at a later point. Please note that these budget cuts do not affect grant or cooperative agreement awards made with FY2012 resources.”

From NASA: “your contract, grant, cooperative agreement, or Space Act agreement may be affected. . . . new and existing work may be re-scoped, delayed, or canceled depending on the nature of the work and the degree to which it directly supports the Agency's mission goals.”

From NSF: FY2013 appropriations will be reduced 5 percent. The agency aims to protect commitments to its core mission, workforce, and STEM human capital development programs. It anticipates awarding approximately 1,000 fewer new research grants. All continuing grant increments in FY 2013 will be awarded as scheduled, and existing standard grants will not be affected. The same intent applies to annual increments for cooperative agreements, though overall funding constraints may require reductions on a case-by-case basis.

From NEH: “The agency will be obligated to make fewer new awards at lower award amounts. We may also have to delay . . . future grant commitments until overall federal budgeting decisions are clarified in whatever approach is adopted when the current continuing resolution elapses March 27. All prior grant acceptances and all upcoming application deadlines will stand.”

IMMINENT CHANGES TO PROGRESS REPORTING

Amy Comer

The National Institutes of Health (NIH) recently announced important information for grantees whose progress reports are due after 30 April 2013. If you are preparing a progress report for a SNAP grant with a start date on or after 1 July 2013, you will be required to use the eRA Commons module Research Performance Progress Report (RPPR; <http://grants.nih.gov/grants/rppr/index.htm>), which replaces the current eSNAP submission. Read NIH Guide Notice NOT-OD-13-035 for more information and access such RPPR-related resources as instruction guides, points of contact, and background information at grants.nih.gov.

In addition, the National Science Foundation (NSF) will transfer all project reporting from FastLane to Research.gov on 18 March 2013. Principal Investigators (PIs) and Co-PIs will use Research.gov to meet all NSF project reporting requirements, including submission of Final, Annual, and Interim Project Reports and the Project Outcomes Report. The new Project Reporting Dashboard will make it easier for PIs, Co-PIs, and Sponsored Project Office (SPO) staff to see which reports are due or overdue and provide access to all reports they have submitted to NSF. Research.gov is the modernization of FastLane, providing the next generation of grants management capabilities for the research community in one location.

The Office of Research and Sponsored Programs will be happy to assist you in using both of these new reporting systems. Please contact us with any questions you may have.

FACULTY SUMMER RESEARCH SALARY

Susan Edwards

How quickly time passes! Daylight saving time has come and gone. Summer vacation plans are forming.

If you are involved in a sponsored project and budgeted to receive summer salary, now is the time to think about when to have it paid. Summer salary is not paid automatically but must be requested.

To initiate payment, you must complete a Faculty Summer Research Salary form, which can be found, with instructions, on the Human Resources website at <http://hr.wfu.edu/faculty-staff/compensation/>.

The summer effort period includes the latter half of May, June, July, and the first half of August. Submit the completed form to Debbie Hellmann by the 10th of the months in which you elect to receive payment.

An effort report will be generated for all faculty paid during the summer term from a sponsored project. ORSP will ask you to certify your summer effort in mid-September.

The Faculty Handbook (p. 48) explains summer salary:

Faculty on nine-month salaries who teach during the summer months are compensated for their effort according to standardized rates developed by their Dean. Faculty compensated for effort under the terms of externally supported grants or contracts may be compensated as allowed by the sponsor. When faculty teach and also participate in funded activities, the combination from both sources may not exceed 3/9ths of their academic year salary. This policy also extends to other salaried activities during the summer, if payment for these activities is managed under the University's payroll system.

WHY ARE THESE *OTHER* FORMS NECESSARY?

Stephen Williams

In the previous newsletter, Associate Director Amy Comer explained the purpose of the routing form, but depending on the proposal, we may also need co-Principal Investigator (Co-PI), cost-share, and conflict-of-interest (COI) forms.

The Co-PI addendum assures that all co-investigators certify their agreement to participate in the project. Each must sign it and have it signed by his or her chair, so the campus is aware of the department's research activity; the Co-PI receives credit for seeking external funds; and university records accurately reflect proposed project personnel.

The cost-share form is only necessary if your proposal includes funds for cost share, or matching, which are project costs not provided by the external sponsor. In general, WFU will only commit resources to a project when the sponsor requires it and the resources are available; cost share adds to university administrative costs on top of the dollar value. Cost share is another reason to consult with ORSP about sponsor and program guidelines well in advance of proposal deadlines.

The COI form is required when you submit a proposal to Public Health Services (PHS) agencies, including NIH, and a few nonfederal agencies, such as the American Heart Association, that follow PHS policy. Due to recent changes in federal regulations, this form is now required before submission. When the lead PI signs it, s/he identifies all investigators associated with the project, and ORSP can verify whether they have completed the required COI training; have an updated COI disclosure; and will cooperate with the university in reporting to PHS as required.

In requesting these forms, we aim to ensure that the university is in compliance with federal and sponsor regulations. We will send you the forms and help you to complete them and to obtain signatures. They are the route to grant success.

ORAU OPPORTUNITIES

Lori Messer

On January 24, Steve Roberts of Oak Ridge Associated Universities (ORAU) visited campus. He is University Partnerships Specialist for the consortium of 98 universities. Wake Forest has been a member since 1993.

ORAU is a federal contractor and manages the Oak Ridge Institute for Science and Education (ORISE), which supports the US Department of Energy (DOE) agenda to advance science education and research by creating opportunities for partnerships among DOE facilities, other federal agencies, the academic community, and industry. It is currently working to improve the partnership aspect.

Funding opportunities include:

- The High-Performance Computing Program for time on the Titan supercomputer. The total amount available is \$25,000 a year for up to 3 years (see <http://www.ornl.gov/education-and-outreach/programs/hpc/default.aspx>)
- Travel awards of \$800 to Oak Ridge National Lab or another ORAU member institution. WFU may submit 2 applications per year. The most important criteria for these awards are student engagement and anticipated outcomes.
- ORAU will sponsor events up to \$4,000 that involve ORAU institutions. There are 2 deadlines per year.

Brad Jones, Interim Dean of the Graduate School on the Reynolda Campus is an ORAU council member and has the university's password for ORAU's members-only website.

If you are interested in being a reviewer for the Department of Energy, email your CV to <http://www.ornl.gov/scientific-peer-review/contact.aspx>. To view programs managed by ORAU, see <http://www.ornl.gov/ornl/hereatornl/>.



QUALTRICS

Pam Moser

Like so much else in our lives, human subjects research is moving online. Increasingly, social, behavioral, and educational researchers are using web-based data collection tools instead of paper and pencil. Wake Forest researchers who are considering this methodology should take advantage of the institutional Qualtrics subscription available to faculty, staff, and students. Current users give Qualtrics high marks for such sophisticated features as a wide range of question formats and powerful, user-friendly data analysis tools.

Qualtrics data security is compliant with Institutional Review Board standards because it supports https/ssl-based survey responses and anonymous and private data collection methods and provides individual researcher accounts, thereby limiting access to the data and a service-level agreement that adequately addresses data security, privacy, and researcher ownership of data.

Informed consent can be obtained from participants online, allowing researchers to broaden their study population. The text of the first survey “question” should include the required elements of informed consent and ask potential participants to click the appropriate radio button to agree or decline. Participants also assert that they are at least 18 years old. Because signatures cannot be obtained, the eIRB application must request a waiver of documentation of informed consent.

The Instructional Technology Group (ITG) offers training in basic to advanced survey building via the Professional Development Center (PDC). To check out Qualtrics for yourself, log in at <http://qualtrics.wfu.edu>. For help with filing an eIRB application using Qualtrics methodology, contact irb@wfu.edu.

NEW FACULTY LUNCH, *continued*

Amy Comer, Associate Director, also has signatory authority. She assists Pam in administering the Institutional Review Board (IRB), negotiates contracts, and helps with budget development and proposal submission.

Pam Moser, Associate Director for Faculty Research Compliance and Support, wants you to remember only the first and last words—Pam/support. She oversees the conduct of research with human participants. Please let her know how well the IRB process, especially eIRB, works for you. She also manages conflict-of-interest disclosures.

Assistant Director Stephen Williams assists faculty with proposal submission, especially budget development, and has signing authority. Words like *fringe*, *indirect*, *cost-share* make sense to him! Email, phone, or just drop by his office.

Susan Edwards, Coordinator of Research Services, manages procedures for our internal awards, including their re-

view; notifies you when you receive an award; assists with biosketches; and handles such postaward matters as account closing and report reminders.

Julie Edelson is a novelist with a doctorate in Comparative Literature who will edit your proposals for clarity and power. Somehow, she can speak Science. She also uses the PIVOT database to search for sponsors appropriate to your projects. Rogan confided that faculty tease her by fielding preposterous endeavors—a study of Ukrainian bread-making—and for the rest of the luncheon, she was sputtering, “Fulbright! IREX!”

Other Wake Forest offices provide support. The Dean and Provost’s Offices, centers, and institutes offer funding, including travel. The Financial and Accounting Office (F&A) manages grants accounting, and **Linda Luvaas** in Corporate and Foundation Relations has different sources of information and networks and is happy to supply her expertise. ORSP can connect you to safety committees at Wake Forest Health Sciences.

The CRADLE program is one way ORSP nurtures grantsmanship (www.wfu.edu/rsp/pdf/CRADLE%20IV%20RFA.pdf). It aims to develop competitive external proposals to support multiyear research projects and creative activities. Up to 10 fellows are selected to participate for two years, with preference to tenure-track faculty, and receive group and individual training with grants consultant David Bauer, a \$5K summer stipend to focus on the program, and a \$1K travel supplement.

Two Psychology faculty who just received tenure and promotion are CRADLE graduates.

Lisa Kiang achieved 31 publications and two grant awards while teaching, marrying, and having two children. Publish or perish is true: better to have a paper on an editor’s desk than your own. She succeeded by learning to let them go before deeming them *perfect* and having papers at different stages in the lengthy publication process. You have to be persistent. A mentor told her to look at rejection as a sign of productivity, and this insight helped her to carry on. She submitted 12 grant proposals to see 2 funded.

Lisa said that surviving and thriving are functions of good personal and social relationships. A colleague in history emphasized informal mentoring—asking colleagues to have coffee. A colleague in Math said follow your passion but listen to reviewers and have small projects running while working on larger ones. A colleague in Dance doesn’t say no to any ideas for collaborations, although Lisa noted that you should talk with your chair first if you have any reservations. In regard to work/family balance, talk with others in the same situation.

Keep track of honors, awards, and press coverage, whether your department values them or not. Glowing emails from students can distinguish your proposal from drier offerings in the reviewer’s stack. **Cheryl Walker**, Associate Director, News and Communications, can help you to publicize your achievements.

Success is built on WFU programs, like CRADLE, and chance meetings with people in all walks of life. Tenure speaks not only to professional success but to personal success.

Wayne Pratt confessed that even having achieved tenure, he felt nervous hearing the number of Lisa's publications. Still, he advised new faculty to have confidence in their training. They were not hired by accident; they are both qualified and a good fit with the institution.

On the other hand, the CV you enter with is not enough; earning tenure *requires* 5 or 6 years. He counseled planning and patience. Be aware of your department's tenure and promotion guidelines and talk to the chair and recently tenured colleagues. Bruce agreed that knowing your department's expectations is vital. You may dream of publishing in *Science* or *Nature*, but colleagues will suggest more realistic options.

Make sure your projects can move forward. Wayne targeted the most realistic extramural grant mechanism for his research program and spent 2 years building infrastructure, winning internal funds to acquire pilot data, getting students on board and demonstrating his skill at mentoring them, getting feedback from mentors inside and outside his department and Wake Forest. CRADLE was crucial as well as the Teaching and Learning Center (TLC). He emailed program awardees to request sample proposals; he spoke with awardees on campus; Julie edited several versions. He applied twice, and the second was awarded.

Find out what works for you in terms of writing. Some faculty can protect blocks of time each week to write, but Wayne needs more continuity to pull together journal articles and uses winter, summer, and in-semester breaks. Junior leaves are a great opportunity to achieve the publications needed for grants and tenure, but be careful not to think, "I'll get everything done during my junior leave."

Finally, he said, enjoy the job: where else do you have the freedom to think about and pursue your own interests?

CAREER COUNSELING

Julie Edelson

The National Science Foundation's Faculty Early Career Development (CAREER) award provides 5 years of project support to junior faculty who exemplify the teacher/scholar ideal. Wake Forest faculty who have won these prestigious awards met with prospective applicants to share their insights.

First observation: all the winners review proposals for NSF.

Second, all agreed with **Rebecca Alexander**, Chemistry, that most junior faculty are well prepared to conceive, design, execute, and write up research projects, but teaching and outreach efforts are new territory, and planning is vital. These elements must go far beyond ordinary responsibilities but should build

on current activities to show that you can meet your commitment. About 5 of the proposal's 15 pages should describe them in the same detail as the research.

Timo Thonhauser, Physics, remarked that as a reviewer of CAREER proposals, he goes straight to p.15 to see if the education component is a single paragraph promising to create a new course. If so, that proposal is history. **Patricia Dos Santos**, Chemistry, suggested allocating a serious 10-15% of the budget to education and outreach, but other divisions may prefer to fund outreach or international experiences for students through supplements. Such variations as well as targeted advice on proposal development demand working closely with your program officer (PO), **Oana Jurchescu**, Physics, said.

Neither outreach nor educational activities have to be innovative, but they must address needs. How do you find out about local needs? Talk to faculty in your department and other departments, especially Education, and community leaders. Piggyback on other projects at first; then use internal funding to develop your own niche. As for national needs, go to <http://www.nsf.gov/awardsearch/simpleSearchResult?queryText=CAREER&ActiveAwards=true>, and look to the left to search funded CAREER projects by state, division, and topic. Read the abstracts, and contact the PI's of the most relevant to ask if you may read the entire proposal as a model. Most will say yes. Julie Edelson in ORSP will offer word-by-word suggestions on your drafts.

Anxious looks prompted examples. Rebecca began her outreach efforts by teaching a day on biotechnology for another program. That commitment grew to 2 weeks on an NSF grant with Winston-Salem/Forsyth County schools. Developing and teaching a first-year seminar would not have been enough for CAREER, but its novel service-learning component argued for broad impact.

Timo proposed events at SciWorks and working with schools; both required a lot of coordination—gaining permissions and letters of support, establishing curricular relevance. He also developed a mentoring program for graduate students and postdocs across departments, securing letters of support from chairs and graduate deans.

Patricia was told by mentor Mark Welker to start building outreach and collecting letters from partners immediately. She began by hosting student researchers from Salem College and Winston-Salem State University; their comments went into her CAREER proposal. Later, she developed a 10-week summer program that now includes Guilford and Bennett Colleges. The students are mentored by Patricia, other research faculty, and a graduate student, and they write 1- and 5-year plans to extend their direction beyond the summer. In Oana's laboratory, graduate students help to mentor visiting high school and community college students, relieving her time burden.

(cont. p. 8)

FUNDED FACULTY RESEARCH

October 2012—February 2013

ANTHROPOLOGY

Sandya Hewamanne, *Subaltern wars: Sri Lanka's civil war and its aftermath through the eyes of soldiers and former Free Trade Zone (FTZ) workers*, American Institute for Sri Lankan Studies (AISLS), \$11,000 + airfare to Sri Lanka

ART

David Lubin, *Embattled Visions: American Art and the First World War*, William C. Seitz Senior Fellow, Center for Advanced Study in the Visual Arts (CASVA) National Gallery of Art; National Humanities Center Fellowship, declined

BIOLOGY

David J. Anderson, *LTREB: Evolutionary ecology of seabird reproductive life histories*, National Science Foundation (NSF), \$90,000

Miles R. Silman, *Understanding range limits and plant migration in response to climate change in neotropical montane forests: Moving from observational models to mechanisms*, NSF, \$360,000

CENTER FOR INTERNATIONAL STUDIES

David Taylor, *Project IMPART (International Mentoring Partnership): Supporting diverse student populations in education abroad*, CAPA International Education/Diversity Abroad, \$2,000

CENTER FOR NANOTECHNOLOGY & MOLECULAR MATERIALS

David Carroll, *PHYSICS, PT-DT WOLED development*, CeeLite Technologies, LLC, \$200,000

Oana Jurchescu, *PHYSICS, Spintronics for novel device application and metrology advancement*, National Institute of Standards and Technology (NIST), \$117,140

CHEMISTRY

S. Bruce King, *Synthesis of 33177 as an influenza antigen*, NIH/WFHS, \$7,056

COMPUTER SCIENCE

Errin W. Fulp

- with **Kenneth Berenhaut**, **MATHEMATICS**, *Modeling mobile agent populations and movement for CEDS*, Department of Energy (DoE)/Battelle Memorial Institute, \$196,473
- with **Daniel Canas**, **David J. John**, and **William Turkett**, **COMPUTER SCIENCE**, *An evolution-inspired approach for moving target defenses*, NSF, \$197,420

Robert J. Plemmons, *Comprehensive space-object characterization using spectrally compressive polarimetric imaging*, Air Force Office of Scientific Research (AFOSR)/University of New Mexico, \$70,000

ECONOMICS

Michael Lawlor, co-investigator,

- with **Walter J. Rejeski** and **Gary D. Miller**, **HEALTH & EXERCISE SCIENCE**, *Look Ahead*, National Institutes of Health (NIH)/Wake Forest Health Sciences (WFHS), \$64,720
- with **Jeffrey Katula**, **HEALTH & EXERCISE SCIENCE**, *Maya Angelou Center for Health Project I*, NIH/WFHS, \$22,391
- with **Gary D. Miller**, **HEALTH & EXERCISE SCIENCE**, *Parents and Children Together Preventing Diabetes (PACT PD)*, NIH/WFHS, \$31,174

GRADUATE SCHOOL OF ARTS & SCIENCES

Bradley Jones, **CHEMISTRY**, *Graduate research fellowship program*, NSF, \$115,500

HEALTH & EXERCISE SCIENCE

Jeffrey Katula, with **Michael Lawlor**, **ECONOMICS**, *Maya Angelou Center for Health Project I*, NIH/WFHS, \$22,391

Anthony P. Marsh, with **Walter J. Rejeski**, **HEALTH & EXERCISE SCIENCE**, *Cooperative Lifestyle Intervention Project (CLIP II)*, NIH, \$596,289

Gary D. Miller

- with **Michael Lawlor**, **ECONOMICS**, *Parents and Children Together Preventing Diabetes (PACT PD)*, NIH/WFHS, \$31,174

Patricia A. Nixon, *Prenatal events, postnatal consequences II*, NIH/WFHS, \$53,862

Walter J. Rejeski

- with **Gary D. Miller**, **HEALTH & EXERCISE SCIENCE**, and **Michael Lawlor**, **ECONOMICS**, *Look Ahead*, NIH/WFHS, \$64,720
- with **Anthony P. Marsh**, **HEALTH & EXERCISE SCIENCE**, *Cooperative Lifestyle Intervention Project (CLIP II)*, NIH, \$596,289

FUNDED FACULTY RESEARCH

October 2012—February 2013

HISTORY

Robert Hellyer, *Asia in a Cup: Tea in the American Experience, 1750-present*, Sainsbury Institute Fellowship

HUMANITIES INSTITUTE

Mary Foskett, **RELIGION**, *Wake Forest University Humanities Institute*, National Endowment for the Humanities (NEH), \$163,167

MAGNOLIA SCHOLARS

Timothy French, *Summer Bridge*, US Department of Education (ED)/NC Independent Colleges and Universities, \$19,000

MATHEMATICS

Kenneth Berenhaut, co-investigator, with Errin W. Fulp, **COMPUTER SCIENCE**, *Modeling mobile agent populations and movement for CEDS*, DoE/Battelle Memorial Institute, \$196,473

Ellen Kirkman, *Invariant theory of Artin-Schelter regular algebras*, Simons Foundation, \$7,000

Robert J. Plemmons, *Comprehensive space-object characterization using spectrally compressive polarimetric imaging*, AFOSR/University of New Mexico, \$70,000

PHILOSOPHY

Christian Miller, with William W. Fleeson and R. Michael Furr, **PSYCHOLOGY**, *Supplemental funds for philosophy and theology competition*, Templeton Foundation, \$417,759

PHYSICS

Martin Guthold, with Keith D. Bonin and Jed Macosko, **PHYSICS**, *Lab-on-bead enabled next-generation sequencing for cancer drug discovery*, NIH/NanoMedica LLC, \$113,111

Fred Salsbury

- *Targeting the MSH2-dependent apoptotic pathway*, NIH, \$148,233
- *Metal occupancy of zinc finger motifs as determinants of Zn²⁺-mediated chemosensitization of prostate cancer cells*, US Department of Defense (DoD)/WFHS, \$10,242
- *Targeted approach to overcoming treatment resistance in advanced prostate cancer*, DoD/Georgia Southern University, \$28,033

Richard T. Williams, *Physics of scintillator nonproportionality*, DoE/Lawrence Berkeley National Laboratory, \$37,500

POLITICAL SCIENCE

Luis Roniger, *Exile, transnational migration, and the transformation of public culture: Argentina, Chile, Uruguay, and Paraguay*, Bi-national Science Foundation, \$7,360

PSYCHOLOGY

William W. Fleeson, with R. Michael Furr, **PSYCHOLOGY**, *Integrating process and structure in borderline personality disorder*, NIH, \$286,522

R. Michael Furr and William W. Fleeson, co-investigators, with Christian Miller, **PHILOSOPHY**, *Supplemental funds for philosophy and theology competition*, Templeton Foundation, \$417,759

RELIGION

Lynn Neal, *NEH Visiting Professor of Religion and Visual Material Culture* University of Richmond

SCHOOLS OF BUSINESS

Len Preslar, *WFU Schools of Business Biotechnology Conference and case competition*, North Carolina Biotechnology Center (NCBC), \$6,700



Wake Forest graduate student Jason Gagliano works with a Physics professors and NanoMedica on Lab-on-Bead technology. Ken Bennett, photograph

CAREER, *continued*

Rebecca suggested including photographs of such activities in the proposal.

In terms of research, the project should not be an extension of postdoctoral work but demonstrate independence. You need a groundbreaking idea in an area of need and preliminary data, especially a publication.

In short, preparing to apply for a CAREER award can take 5 years. You can submit a proposal to the program 3 times—why not first apply for a standard NSF grant to amass the data and publications that will make your CAREER application competitive? As Timo noted, it aims to support a career and should show the place of the proposed activities in a 10-year strategic plan for a research program.

Deadlines are in July every year. Make sure you have a proposal draft ready by May to request review by a quality circle, mentors, and colleagues.



COMPLIANCE HOTLINE

Call 1-877-880-7888 or email www.tnvinc.com/Reportline/International/ to report suspected violations of laws, regulations, rules, policies, procedures, ethics, or other information anonymously. The operator, who is not a university employee, will report your concerns to the University Compliance Office.



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**Research
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