

Office of Research Newsletter – October 10, 2014

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Part I. News and Announcements

Congratulations to the Following Faculty on Receiving New Grants in August

<i>Awardee</i>	<i>Funding Source</i>
Abouzeid, Alhussein	Federal
Bequette, Wayne	Federal
Chow, Joe; Gupta, Aparna; Kar, Koushik	Federal
Cramer, Steven; Karande, Pankaj	Federal
Danon, Yaron	Federal
Hella, Mona; Shur, Michael	Federal
Holguin-Veras, Jose	Foundation
Ji, Heng	Federal
Kane, Ravindra	Federal
Koffas, Mattheos	Federal
Koratkar, Nikhil; Walczyk, Daniel	Federal
Leslie, Russell	State
Liu, Li	Federal
McLaughlin, Joyce	Industry
Narendran, Nadarajah	State
Rogers, Karyn	Federal
Shur, Michael	Federal
Stewart, Charles	Federal
Swank, Douglas	Federal
Terrones, Humberto	Federal

Walczyk, Daniel	Federal
Wallace, William	Federal
Woods, John	Federal
Zhang, Tong	Federal

New Phase of Cooperation between NIH and the Bill and Melinda Gates Foundation

The National Institutes of Health (NIH) and the Bill & Melinda Gates Foundation (BMGF) have entered into a new phase of cooperation to develop interventions to reduce major global health burdens. The two organizations will launch milestone-driven projects on an agreed set of priorities, to include:

- Vaccines to prevent HIV, respiratory syncytial virus, visceral leishmaniasis, and dengue
- Experimental models to accelerate TB drug discovery
- Maternal and infant nutrition
- Reduction of premature births
- Healthy cognitive development in children
- Affordable point-of-care diagnostic technologies

With the launch of these projects, NIH and BMGF have concluded an agreement to govern confidential disclosures and facilitate the sharing of data and expertise. The joint projects are the outcome of a planning workshop convened by the two organizations last July.

The NIH and BMGF have enjoyed a working partnership since the creation of Grand Challenges in Global Health, now celebrating its tenth year. The two organizations together represent 54% of global research and development expenditure on diseases that disproportionately affect populations in low- and middle-income countries.

More at http://www.nih.gov/about/director/10082014_statement_gates.htm

NSF Dear Colleague Letter - Intent to Support an Ideas Lab on Multiscale Integration of Brain Activity and Structure with Brain Function Using Predictive Theoretical Models and Innovative Experimental Methodology

More at <http://www.nsf.gov/pubs/2014/nsf14126/nsf14126.jsp>

A Weekly Newsletter from DOE Office of Energy Efficiency and Renewable Energy (EERE): <http://apps1.eere.energy.gov/news/enn.cfm>

MARK YOUR CALENDAR

October 18, 2014, Hofstra University

Managing New York Ocean Resources: Connecting Science and Policy

As directed by the National Ocean Policy, Regional and New York Ocean Action Plans and Ocean Assessments are being drafted that will protect and guide our management of marine resources for now and for the future. The New York Marine Sciences Consortium will host a

meeting to gather input from the scientific community, policy makers, other stakeholders and the general public to inform these action plans and assessments. Input from the conference will be used to develop recommendations and identify critical knowledge gaps regarding ocean-related human uses, natural resources, and cultural factors.

More at <http://www.somas.stonybrook.edu/~awp/>

Part II. Funding Opportunities

DOD

Institute for Manufacturing Innovation - Integrated Photonics

https://www.fbo.gov/index?s=opportunity&mode=form&id=0e3fe0efbff05f2f4b0829a4eeacc286&tab=core&_cvview=0

The purpose of this notice is to announce the U.S. Government's intent to launch a competition for the sixth Institute for Manufacturing Innovation (IMI) and the fourth to be led by DOD. The technical focus area for this Institute will be Integrated Photonics. This IMI will be expected to create an end-to-end ecosystem in the U.S. for Integrated Photonics; including responsive domestic integrated photonics chip fabrication foundry access, integrated design tools, automated packaging, assembly and test, and workforce development. The IMI will be structured to allow government, industry and academia to come together with the goal of organizing the currently fragmented U.S. capabilities in integrated photonics technology and better position the U.S. relative to global competition. The Integrated Photonics IMI will also enable universities and small to medium enterprises to participate in and benefit from the IMI's manufacturing advances. The IMI will need to be structured to address both DOD and commercial applications, with a focus on maturing the technology from TRL 4 to 7. The Institute will be expected to become self-sustaining after 5 years from the signing of the Cooperative Agreement.

A BAA is anticipated to be released in early November 2014.

DOD Orthotics and Prosthetics Outcomes Research Award Grant

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=268008>

Pre-Application Due Date: November 12, 2014. Application Due Date: January 16, 2015

AFRL

Thin-Wing Electromechanical Actuation (EMA) Demonstration Grant

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=268168>

November 10, 2014

DARPA

Spectral Combs from UV to THz (SCOUT)

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=268197>

Abstract Due Date: October 23, 2014. Full Proposal Due Date: November 25, 2014

Navy

Minerva Research Initiative

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=265088>

White Paper Due Date: November 10, 2014. Full Proposal Due Date: February 10, 2015

DOE

Buildings Energy Efficiency Frontier & Innovation Technologies (BENEFIT) - 2015 Grant

<https://eere-exchange.energy.gov/#FoaIdf108714f-0d79-45e5-980d-f265d58624c8>

Concept Paper Due Date: November 10, 2014. Full Application Due Date: January 12, 2015

Request for Information - Solar Decathlon 2017

<https://eere-exchange.energy.gov/#FoaIddb4c51f6-e566-4791-9b26-c7dd4873870a>

November 24, 2014

Concentrating Solar Power: Advanced Projects Offering Low LCOE Opportunities

<https://eere-exchange.energy.gov/Default.aspx?Search=0001186&SearchType=#FoaIdfee08595-cc14-48ee-99dc-1b7fd21ccc22>

Concept Paper Due Date: November 26, 2014. Full Application Due Date: February 20, 2015

Scientific Discovery through Advanced Computing (SciDac): High Energy Physics

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=268196>

LOI Due Date: December 3, 2014. Application Due Date: January 7, 2015

Notice of Intent to Issue DE-FOA-0001181: Wind Energy Bat Impact Minimization Technologies and Field Testing Opportunities

<https://eere-exchange.energy.gov/#FoaId3002686f-4076-4afc-a1c9-44dda5ddf688>

Full Application Due Date TBD

DHS

Robotic Aircraft for Maritime Public Safety (RAMPS) Research

https://www.fbo.gov/index?s=opportunity&mode=form&id=2266ac00d53a8acb47c4d5d9b5bb45d9&tab=core&_cvview=0

November 3, 2014

NIH

System-Level Health Services and Policy Research on Health Disparities (R01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-001.html>

LOI Due Date: December 20, 2014. Application Due Date: January 20, 2015

Regional Consortia for High Resolution Cryoelectron Microscopy (U24)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-16-001.html>

LOI Due Date: December 27, 2014. Application Due Date: January 27, 2015

Vascular Dysfunction in the Pathogenesis of Severe Malaria (R01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-023.html>

LOI Due Date: January 13, 2015. Application Due Date: February 13, 2015

Biology of the Temporomandibular Joint in Health and Disease (R21)

<http://grants.nih.gov/grants/guide/pa-files/PA-14-359.html>

February 16, 2015

Biology of the Temporomandibular Joint in Health and Disease (R01)

<http://grants.nih.gov/grants/guide/pa-files/PA-14-358.html>

March 5, 2015

Innovative Research in HIV in Kidney, Urology and Hematology (R01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-020.html>

LOI Due Date: March 9, 2015. Application Due Date: April 9, 2015

NSF

Energy for Sustainability

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026&WT.mc_id=USNSF_39&WT.mc_ev=click

October 1, 2014 - November 5, 2014; October 1 - October 20, Annually Thereafter

Thermal Transport Processes

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367&WT.mc_id=USNSF_39&WT.mc_ev=click

October 1, 2014 - November 5, 2014

Probability

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5555&WT.mc_id=USNSF_39&WT.mc_ev=clickStatistics

October 23, 2014 - November 7, 2014; October 23-November 7, Annually Thereafter

Statistics

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5556&WT.mc_id=USNSF_39&WT.mc_ev=click

October 23, 2014 - November 7, 2014; October 23-November 7, Annually Thereafter

Geometric Analysis

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5549&WT.mc_id=USNSF_39&WT.mc_ev=click

November 4, 2014; First Tuesday in November, Annually Thereafter

Long Term Research in Environmental Biology (LTREB)

[http://www.nsf.gov/pubs/2015/nsf15503/nsf15503.htm?WT.mc_id=USNSF_25&WT.mc_ev=cli
ck](http://www.nsf.gov/pubs/2015/nsf15503/nsf15503.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)

Preliminary Proposal Due Dates: January 23, 2015; January 23, Annually Thereafter. Full
Proposal Due Dates: August 3, 2015; August 2, Annually Thereafter

NEH

Collaborative Research Grants

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=267908>

December 9, 2014

Scholarly Editions and Translations Grants

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=267910>

December 9, 2014

Foundations

The Bill & Melinda Gates Foundation is now inviting applications for three new Grand
Challenges:

- Putting Women and Girls at the Center of Development
- Creating and Measuring Integrated Solutions for Healthy Birth, Growth, and
Development (part of the All Children Thriving platform)
- New Interventions for Global Health

Applications for these new challenges will be accepted beginning on November 4, 2014. Please
also note that the Foundation is still accepting applications for six Grand Challenges
Explorations topics.

For links to more information on these challenges, please visit the grant opportunity page at
<http://grandchallenges.org>. Please contact Deborah Chesky at cheskd@rpi.edu in Corporate and
Foundation Relations if you are interested in applying.

*Please note that this bulletin is not intended to be an exhaustive listing of funding opportunities.
Your input and feedback are always welcome. Please send your comments and requests to be
removed from the distribution list to huangj7@rpi.edu.*