Part I. News and Announcements

Congratulations to the Following Faculty on Receiving New Grants in August

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


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=0e3fe0efbf05f2f4b0829a4eeacc286
&tab=core&_cview=0

The purpose of this notice is to announce the U.S. Governments 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 IMIs 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
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

Buildings Energy Efficiency Frontier & Innovation Technologies (BENEFIT) - 2015 Grant
https://eere-exchange.energy.gov/#Foaldf108714f-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/#Foalddb4c51f6-e566-4791-9b26-c7dd4873870a
November 24, 2014

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/#Foald3002686f-4076-4afc-a1c9-44dda5ddf688
Full Application Due Date TBD

Robotic Aircraft for Maritime Public Safety (RAMPS) Research
https://www.fbo.gov/index?s=opportunity&mode=form&id=2266ac00d53a8acb47c4d5d9b5bb45d9&tab=core&_cview=0
November 3, 2014

System-Level Health Services and Policy Research on Health Disparities (R01)
LOI Due Date: December 20, 2014. Application Due Date: January 20, 2015

Regional Consortia for High Resolution Cryoelectron Microscopy (U24)
LOI Due Date: December 27, 2014. Application Due Date: January 27, 2015
Vascular Dysfunction in the Pathogenesis of Severe Malaria (R01)
LOI Due Date: January 13, 2015. Application Due Date: February 13, 2015

Biology of the Temporomandibular Joint in Health and Disease (R21)
February 16, 2015

Biology of the Temporomandibular Joint in Health and Disease (R01)
March 5, 2015

Innovative Research in HIV in Kidney, Urology and Hematology (R01)
LOI Due Date: March 9, 2015. Application Due Date: April 9, 2015

NSF

Energy for Sustainability
October 1, 2014 - November 5, 2014; October 1 - October 20, Annually Thereafter

Thermal Transport Processes
October 1, 2014 - November 5, 2014

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

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

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

Long Term Research in Environmental Biology (LTREB)

**NEH**

**Collaborative Research Grants**


December 9, 2014

**Scholarly Editions and Translations Grants**


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](http://grandchallenges.org). Please contact Deborah Chesky at cheskd@rpi.edu in Corporate and Foundation Relations if you are interested in applying.

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*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.*