

THE NATIONAL

ACADEMIES

GUIRR Update

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*Susan Sauer Sloan, Director
Government-University-Industry Research Roundtable*

FDP Meeting – May 4-6, 2011

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

National Academy of Sciences
National Academy of Engineering
Institute of Medicine
National Research Council

Government-University-Industry Research Roundtable

- *An unfortunate acronym: GUIRR*
- Created in 1984 in response to a report of the National Commission on Research
- First-established and oldest roundtable within the Academies
- Joint body of the NAS, NAE, and IOM
- Goal: To improve the research enterprise of the United States
- Method: Convening meetings and initiating projects that *involve* and *engage* senior representatives from government, universities, and industry

GUIRR serves as the
“administrative home” and
secretariat for the FDP
within the National Academies

GUIRR MISSION

- To convene senior-most representatives from government, universities, and industry to define and explore critical issues related to the national and global science and technology agenda that are of shared interest; to frame the next critical questions stemming from current debate and analysis; and to incubate activities of ongoing value to the stakeholders. This forum facilitates candid dialogue among participants to foster self-implementing activities and, where appropriate, carry awareness of consequences to the wider public.

Composition – Membership Structure

- **Council Members (appointed by the NAS President)**
 - The three presidents of the National Academies (NAS, NAE, IOM)
 - Heads of major federal R&D agencies (*ex officio* members)
 - For non-R&D agencies, the head of the largest R&D performing subdivision
 - Select number of CEOs from industry
 - Select number of university presidents
- **Associate Members (delegated by Federal Agency Heads)**
 - Designated by federal agency heads as their alternate representative to GUIRR
- **University-Industry Partners**
 - Typically the VP of Research, or similar level
 - University-company pairing assures membership balance of GUIRR is maintained
 - Currently 20 partner organizations (40 institutional member orgs)
 - Pay annual dues
 - Act as "antennae" to bring into GUIRR discussions the most current ideas and issues facing government-university-industry research cooperation across the country, and to help disseminate ideas

GUIRR Council

- NIH
- NSF
- DOD +
- USDA
- US Dept. of State
- FDA
- NIST
- NOAA
- EPA
- DHS
- NASA
- OSTP
- DOE
- NAS
- NAE
- IOM
- Noblis *
- Dow Chemical
- Microsoft Corporation
- wTe Corporation
- University of Maryland *
- University of Puerto Rico-Rio Piedras
- University of Rochester
- George Mason University
- University of Akron
- California State University-Los Angeles
- Washington University in St. Louis

GUIRR U-I Partners

- Agilent
- Battelle
- Boeing
- Elsevier
- Hewlett-Packard
- IBM
- Intel Corporation
- John Deere & Co.
- Lockheed Martin
- Mars, Inc.
- Noblis
- Northrop Grumman
- Northrop Grumman-Space Tech
- Pacific Northwest National Laboratory
- Raytheon Company
- Semiconductor Research Corp.
- Siemens
- Southwest Research Institute (SwRI)
- Textron
- *PENDING*
- University of Michigan
- The Ohio State University
- Georgia Institute of Technology
- Purdue
- University of California-Los Angeles
- Stanford University
- University of California-Berkeley
- Iowa State University
- University of Maryland
- University of California-Davis
- George Washington University
- Massachusetts Institute of Tech
- California Institute of Technology
- Washington State University
- University of Massachusetts
- University of Texas at Austin
- Princeton University
- University of Texas at San Antonio
- Northeastern University
- Pennsylvania State University

Executive Committee



C.D. (Dan) Mote, Jr.
Former President and Glenn L. Martin
Institute Professor of Engineering
University of Maryland
at College Park
Co-Chair



Lydia Waters Thomas
President and Chief
Executive Officer,
Retired
Noblis
Co-Chair

- Dr. Harvey Fineberg, President, IOM
- Dr. Subra Suresh, Director, NSF
- Dr. Harold Schmitz, Chief Scientist, Mars Inc.
- Ms. Susan Sauer Sloan, Director, GUIRR

Structure

- **Three large meetings a year convene the entire membership**
 - Introduce topics that are *just emerging* at the leadership level that require collaboration across the three sectors
 - Bring in outside experts to provide unique perspectives
 - Open discussion and debate
 - Informal networking
 - Post meeting: Meeting Recap
guest article in *NCURA Magazine*
 - Smaller working groups focus on dedicated projects
 - Leadership Dinners (GUIRR Council only)

GUIRR Meeting Titles/Themes

2011

- Cybersecurity in the Coming Decade: Using Security to Support the Value of Intellectual Property

2010

- Geoengineering: Contemplating the Issues and the Need for Research
- WATER: Quality, Quantity, and the Need for Innovative Technologies
- Sensors: From Sea to Space – Innovations and Implications for the Future

2009

- Diminishing Natural Resources: Recognizing Limitations, Responding to the Challenges
- Maximizing U.S. Returns on Shared Knowledge: Innovative Frameworks for Technology Transfer and Full Global Engagement
- Perspectives on the “Global Food Crisis” (Part II – emphasis on food safety)

2008

- Food Security – Global Challenges and Directions
- New Partnerships on a Global Platform
- Flying Over the Valley of Death: Accelerating from Discovery to Product

2007

- Environmental Sustainability: A Path Forward Via Government-University-Industry Partnerships
- Global Energy Policy Solutions II
- Global Energy Policy Solutions

2006

- No College Student Left Behind: Higher Education and Workforce Implications of the Spellings Commission Report
- Strategies for U.S. Competitiveness: Developing a Proposed Role for GUIRR
- Enterprise and Institutional Risk

Next Meeting

- June 14-15, 2011
- Theme: “mad science” (high-risk, high-reward)
- *“Charting a Return to ‘Way Out There’ Research and Risk-Taking at the Edges”*
- Intended as a means to provide inspiration and re-education to funding agencies and policymakers and to regenerate our belief in ‘neck snapping’ advances as contrasted with incremental contributions
- Confirmed keynote dinner presenter: Dr. Regina Dugan, Director, DARPA
- Confirmed keynote luncheon presenter: Mr. Vivek Wadhwa with Harvard Law School, Duke University, and Businessweek.com

Projects/Working Groups

- International Research Collaborations (I-Group)
- Survey of Factors in Multinational R&D Location – Revisited
- Food Safety and National Defense
- Partnerships for Emerging Research Institutions
- Managing Large-Scale Data Sets



International Research Collaborations

- Comprehensive workshop held in Washington, DC on July 26-27, 2010; its purpose to:
 - examine core elements and identify issues related to the design and implementation of international research collaborations
 - highlight specific tools that have been helpful in overcoming hurdles to research collaboration
 - develop a common language/lexicon (*lingua franca*)
- Three cross-cutting thematic sessions (“horizontal”)
 - ***Creating an Environment for Productive International Collaboration***
 - ***Cultural Differences and Nuances***
 - ***Legal Issues and Agreements***
- Five “track” areas (“vertical”)
 - ***Intellectual Property***
 - ***Ethical Standards***
 - ***Research integrity and the Responsible Conduct of Research***
 - ***Risk Management***
 - ***Export Controls***

- Testimonials submitted by attendees; posted on GUIRR web site
- **Workshop Summary Report** being prepared for publication by National Academy Press – expected release date: June 2011
- Articles: *NCURA Magazine*, Air Force Research Laboratory *International Notes*, DHHS *Office of Research Integrity Newsletter*, *Dayton Law Review*
- Face-to-face working group meeting set for **May 24** in Washington, DC
 - Plan special event around report release
 - Other ‘derivative products’ and/or activities (articles, online resource, written primer, case studies)
 - Consider particular constraints of international research collaboration when happening in *virtual* space
 - Plan larger follow-on meeting in partnership with OECD, etc.

Here or There? Revisited

- Survey of Factors in Multinational R&D Location
- Economists Jerry and Marie Thursby, Georgia Tech
- First conducted in 2005: survey of US and Western European firms on recently established R&D labs both in and outside of their home countries
- Initial report to GUIRR published in 2006
- GUIRR has asked the Thursby's to conduct a *new* survey on factors in global R&D locations – for purposes of comparison and following the recent economic downturn in the U.S.
- New survey will include Asian firms (Chinese, Korean, Japanese)
- The Thursby's to meet with representatives of the Chinese Academy of Sciences (CAS) and the Korea Advanced Institute of Science and Technology (KAIST) later this month
- Organizations that have agreed to participate in project to date: Industrial Research Institute (IRI), Semiconductor Research Corporation (SRC), European Industrial Research Management Association (EIRMA)

Two important groups supported by GUIRR

- **Federal Demonstration Partnership (FDP)**
 - The **Federal Demonstration Partnership (FDP)** is a GUIRR-supported cooperative initiative among 10 federal agencies and 120 institutional recipients of federal funds; its purpose is to reduce the administrative burdens associated with research grants and contracts.
<http://www.thefdp.org>
- **University-Industry Demonstration Partnership (UIDP)**
 - The purpose of the **UIDP** is to nourish and expand collaborative partnerships between university and industry in the United States. The UIDP is crafting collaborative experiments on new approaches to sponsored research, licensing arrangements, and the broader strategic elements of a healthy, long-term university-industry relationship.
<http://www.uidp.org>

UIDP

- Began in 2003 as GUIRR-led working group to address IP issues primarily
- Formally organized in 2006 with broader mission to improve the health of research partnerships between universities and industry, thereby improving U.S. competitiveness
- Today >80 members -- 2/3rds university, 1/3rd industry
- UIDP Executive Director: Dr. Anthony Boccanfuso
- Two meetings per year plus year-end Project Summit
- Last meeting: April 4-6, 2011 at Pfizer HQ in La Jolla, CA
- Next meeting: August 23-26, 2011 at Monsanto in St. Louis, MO
- Numerous dedicated projects, including:
 - Contract Accords/TurboNegotiator
 - Government Funding Webinar Series (with NCET2)
 - Industry Interest Webinar Series (with NCET2)
 - Researcher Handbook (primer for faculty who are interested in working with industry)
 - Partnership Continuum

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www.nas.edu/guirr

Federal Demonstration
Partnership
(FDP)
David Wright

Purpose: To reduce the administrative burdens
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www.thefdp.org

University-Industry
Demonstration Partnership
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Anthony Boccanfuso

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in the United States.
www.uidp.org

Thank you. QUESTIONS?

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