

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

Government-University-Industry Research Roundtable Meeting

"No College Student Left Behind: Higher Education and Workforce Implications of the Spellings Commission Report."

October 10, 2006 (dinner)
Bistro Bis Restaurant
Hotel George
15 E. Street, NW
Washington, D.C. 20001

October 11, 2006 (meeting)
Room 100 Keck Building
The National Academies
500 Fifth St., NW
Washington, D.C. 20001

October 10, 2006 **Bistro Bis Restaurant, Hotel George, 15 E. St, NW, Washington, DC**

6:00pm–6:30pm
6:30pm–8:00pm

Cocktails
DINNER: Federal Agency Perspectives on S&E Workforce

Moderator: Lydia Thomas, GUIRR Co-Chair and CEO of Mitretek

- Jay Cohen, Under Secretary for Science and Technology, DHS
- William Rees, Deputy Under Secretary of Defense, Laboratories and Basic Sciences, DOD
- Merle Pierson, Deputy Under Secretary for Research, Education and Economics, USDA

During this dinner, the leadership of DHS, DOD and USDA S&T functions will outline their visions for their respective agencies' S&T strategy, including their agency's role in developing a qualified U.S. workforce in science and engineering.

October 11, 2006 **Rm. 100 Keck, 500 Fifth St. NW, Washington, DC 20001**

7:30–8:00 Continental Breakfast
8:00–8:15 Welcome: GUIRR Co-Chair Marye Anne Fox, Chancellor, UCSD

REVIEW OF ONGOING GUIRR ACTIVITIES

8:15–8:25 **Data Overload** (*joint activity between GUIRR and the Board on Mathematical Sciences and their Applications*)

GUIRR volunteers: Tilak Agerwala (replacing Robert Morris), Richard Spinrad
Collaborators: Amy Braveman (JPL); Robert Bouzon (HP); Robert Chadduk (National Archives); Thomas Karl (NOAA), Alan Laub (UCLA); Chung-Sheng LI (IBM); Martha Maiden (NASA); Michael Marron (NIH); Dan Reed (UNC); Sylvia Spengler (NSF); Michael Strayer (DOE), Lee Zia (NSF).

- Tilak Agerwala, Vice President, Systems, IBM T. J. Watson Research Center (invited)

Over the summer, this effort stepped up its fundraising activities and sought internal Academies approval for a pair of workshops. Dr. Agerwala, who is replacing Dr. Morris as IBM's representative to GUIRR and the champion for this project, will give a short progress update.

8:25–8:30 DISCUSSION

8:30–8:45 **Partnerships for Emerging Research Institutions (ERI's)**

GUIRR volunteers: Wanda Austin, Wayne Johnson, Robert Morris, George Reynolds, Lydia Thomas, Nancy Wray

Collaborators: Vijaya Melnick (FDP and UDC)

- Vijaya Melnick, Director of Sponsored Research and Programs, University of the District of Columbia; also, FDP liaison to the GUIRR membership on the ERI project

This project is designed to develop mechanisms by which research-emerging institutions can leverage the “administrational” resources of research-intensive institutions. Dr. Melnick will explain key structural features of the envisioned workshop and update GUIRR members on the status of the National Academies committee being assembled to oversee the workshop and report.

8:45–8:50 DISCUSSION

8:50–9:10 **Federal Demonstration Partnership - Next Steps in the Faculty Burden Survey and other updates**

- Nancy Wray, Chair, the Federal Demonstration Partnership

The Federal Demonstration Partnership, one of GUIRR's earliest success stories, continues to innovate. Strategic planning meetings have set a path for FDP to becoming increasingly data-driven and outcomes-structured. In this context, the outcomes and possible paths forward for current and proposed demonstrations, including the FDP Faculty Burden survey will be discussed.

9:10–9:15 DISCUSSION

9:15–9:45 **University-Industry Demonstration Partnership (UIDP)**

GUIRR volunteers: Bob Killoren, President of the UIDP (and new ex-officio member of GUIRR)

- Susan Butts, Vice President, University-Industry Demonstration Partnership

In April 2006, the University-Industry Demonstration Partnership formally spun out of GUIRR. This activity was the result of 2 ½ years of discussions hosted by GUIRR on issues related to university-industry partnerships generally, and intellectual property negotiations specifically. Susan Butts, the first Vice-President of the UIDP, will describe the status of the fledgling organization, including fundraising, membership and key issues to be addressed.

9:45–9:50 **Here or There: A Survey of Factors in Multinational R&D Location**
GUIRR volunteers: Bob Killoren, President of the UIDP (and new ex-officio member of GUIRR)

- Susan Butts, Senior Director, External Research & Technology Programs, Dow Chemical Company

On Sept. 22, 2006, the Wilson Center hosted a rollout for the GUIRR-commissioned report, "Here or There? A Survey of Factors in Multinational R&D Location." Dr. Butts, who was one of the industry commentators at the release, will briefly describe public reaction to the report.

9:50–9:55 DISCUSSION

9:55–10:15 **State Gathering Storm Convocation**

- Debbie Stine, Associate Director, COSEPUP, The National Academies

Dr. Stine will summarize activities and findings that arose from the Sept. 28 State Gathering Storm Convocation co-hosted by COSEPUP and GUIRR.

10:15–10:25 DISCUSSION

10:25–10:40 BREAK

A SAMPLING OF SCIENCE AND ENGINEERING WORKFORCE POLICY ACTIVITIES

10:40–11:10 **New and Forthcoming S&E Workforce Reports from the National Science Board and COSEPUP**

- Shirley Malcom, Head, Directorate for Education and Human Resources Programs, American Association for the Advancement of Science

Dr. Malcom is currently serving on two major report committees: the Commission on the 21st Century Education in Science, Technology, Engineering & Mathematics, chartered by the National Science Board and the Committee on Women in Science and Engineering: Maximizing Their Potential," commissioned by COSEPUP. She will describe the work of these two efforts, and their place in the context of the S&E workforce landscape in Washington.

11:10–11:20 DISCUSSION

11:20–11:35 **Industry Needs for a Professional Science Master's Degree**

- Peter Henderson, Director, Board on Higher Education and Workforce

Dr. Henderson is directing a new National Academies study that will look at the potential industry demand for a “Professional Science Master’s” degree. Since GUIRR represents one of the largest concentrations of industry representatives in the National Academies, we are being asked to assist with the conceptualization of this study – in particular, how to encourage industry engagement and obtain industry-relevant statistics.

11:35–11:45 DISCUSSION

11:45–1:30 LUNCH and LUNCHTIME ADDRESS

Findings and Implications of the Spellings Commission Report

- Jim Duderstadt, President *Emeritus* and University Professor of Science and Engineering at the University of Michigan and member of the Commission on the Future of Higher Education

Dr. Duderstadt will brief the GUIRR members on the newly released report of the Commission on the Future of Higher Education. The report is being referred to as the “No College Student Left Behind Report” for its emphasis on holding higher education accountable to outcomes, and its potential to have a noticeable impact on higher education in the U.S.

1:30–1:50 **American Competitiveness Council**

- Diane Auer-Jones, Deputy to the Associate Director for Science, Office of Science and Technology Policy

The American Competitiveness Council is an interagency working group tasked by legislation to rationalize the U.S. government’s various programs in STEM education. The ACC has set itself an ambitious schedule to satisfy an important goal. Diane Auer-Jones will outline the goals and process of the ACC, and discuss its potential to impact science and engineering education and intervention programs in the U.S.

1:50–2:00 DISCUSSION

2:00–2:15 **Potential GUIRR Initiative in S&E Workforce: The National Strategic Plan**

GUIRR volunteers: Patrick Antony, Sam Armstrong, Mel Bernstein, William Berry, Tony Elam, Sharon Hays, Ruth Kirchstein, Eva Pell, Bob Powell, George Reynolds, Wally Schaffer, Hratch Semerjian, Kelly Sullivan

Collaborators: Peter Faletra (DOE), Tom Kowalczyk (DHS), Laura Petonito (DHS), Don Thompson (NSF), Keith Thompson (DOD), Virginia Wiggins (SRC), Lillian Wu (IBM)

- George Reynolds Director of University Relations, Northrop-Grumman Electronic Systems;
- Patrick Rivera Antony, Director, Enterprise University Relations, The Boeing Company

The GUIRR S&E workforce group will discuss its vision for a National Strategic Plan for the science and engineering workforce, and ask for feedback from the GUIRR membership.

2:15–2:45 **Member Discussion of GUIRR S&E Workforce Initiative in Context of Ongoing Efforts**

2:45–3:00 **Member Discussion of Potential Topics for Next GUIRR Meeting (February 19)**

3:00 **Adjourn**