

The Big Data Revolution: What Does It Mean for Research?

Government-University-Industry Research Roundtable Meeting

*** GUIRR celebrates 30 years! ***

October 14-15, 2014

The advent and pervasive nature of big data and what it means for science is being realized every day. This meeting will focus on how big data is changing the way we do science, looking particularly at the challenges of working with and analyzing big data sets, ethics and privacy concerns, workforce and training issues, and opportunities for public-private partnerships. While acknowledgement will be made of the technical side of big data, our discussion will focus primarily on the role and impact of big data in scholarly research.

Tuesday, October 14, 2014

Location: National Academy of Sciences Building, 2101 Constitution Avenue, N.W., Washington, DC 20418

5:00-6:00 PM GUILR Executive Committee Meeting – NAS 114 (*Committee Members only*)

5:00-6:30 PM Networking Mixer – West Court

6:30-8:30 PM Dinner and Keynote Address – Great Hall

BIG DATA R&D: MOVING FROM INFRASTRUCTURE TO APPLICATIONS

Moderator: Dr. Uma Chowdhry, Chief Science and Technology Officer Emeritus, DuPont and GUILR Co-Chair

Dr. Chaitan Baru, Senior Advisor for Data Science, Directorate for Computer and Information Science and Engineering (CISE), National Science Foundation

Wednesday, October 15, 2014

Location: National Academy of Sciences Building – Lecture Room

7:30-8:00 AM Continental Breakfast – East Court

8:00-8:15 AM **WELCOME REMARKS**

Dr. Uma Chowdhry, Chief Science and Technology Officer Emeritus, DuPont and GUILR Co-Chair

8:15-9:10 AM **CHALLENGES OF WORKING WITH BIG DATA**

Two 20-minute presentations followed by Q&A

The NIH as a Digital Enterprise

Dr. Philip Bourne, Associate Director for Data Science, National Institutes of Health

Challenges and Opportunities with Big Data

Dr. H. V. Jagadish, Bernard A. Galler Collegiate Professor of Electrical Engineering and Computer Science, University of Michigan [confirmed]

9:10- 10:35 AM	ETHICS AND PRIVACY CONCERNS <i>Three 20-minute presentations followed by Q&A</i>
	<i>Big Data, Science Policy, and Privacy</i> Dr. Julia Lane, Institute Fellow at American Institutes for Research; professor of economics, BETA University of Strasbourg CNRS, Chercheur, Observatoire des Sciences et des Techniques, Paris; and professor, Melbourne Institute of Applied Economics and Social Research, University of Melbourne
	<i>Big Data and Vulnerable Communities</i> Mr. Alvaro Bedoya, Executive Director, Center on Privacy and Technology, Georgetown University
	<i>Corporate Ethics and Big Data</i> Mr. Jules Polonetsky, Executive Director and Co-Chair, Future of Privacy Forum
10:35- 11:05 AM	Break
11:05 AM- 12:00 PM	WORKFORCE AND TRAINING Dr. Raghu Ramakrishnan, Technical Fellow, Microsoft
12:00 - 1:15 PM	Lunch – West Court
1:15- 2:20 PM	PUBLIC PRIVATE PARTNERSHIPS <i>Two 20-minute presentations followed by Q&A</i>
	<i>Texas A&M – Industry Partnership for Big Data</i> Dr. Valerie Taylor, Senior Associate Dean of Academic Affairs in the Dwight Look College of Engineering and the Regents Professor and Royce E. Wisenbaker Professor in the Department of Computer Science and Engineering, Texas A&M University
	<i>Massachusetts Big Data Initiative</i> Mr. Pat Larkin, Executive Director, Innovation Institute, Massachusetts Technology Collaborative & Mr. John Goodhue, Executive Director, Massachusetts Green High Performance Computing Center
2:20-2:35 PM	PROPOSAL OF NEW TOPICS AND PROJECTS FOR GUIRR
2:35-3:00 PM	UPDATES AND DISCUSSION ON CURRENT GUIRR PROJECTS Moderator: Ms. Susan Sloan, Director, GUIRR <ul style="list-style-type: none"> ▪ University-Industry Demonstration Partnership (UIDP) – Dr. Anthony Boccanfuso, Executive Director, UIDP ▪ Federal Demonstration Partnership (FDP) – Ms. Cindy Hope, Assistant Vice President for Research and Director, Office for Sponsored Programs, University of Alabama and FDP Chair ▪ International Research Collaborations – Mr. Wayne Johnson, Executive Director, Innovation Institute, University of Massachusetts-Lowell ▪ GUIRR Webinar Series – Ms. Kristina Thorsell, Associate Program Officer, GUIRR ▪ Translational Research Roundtable – Scott Steele, Director, Government and Academic Research Alliances, University of Rochester
3:00 PM	Adjourn