



The Dupont Summit.

*The New Administration Tackles Science & Technology:
Priorities for Discovery and Advance*

December 5th, 2008 at the **Carnegie Institution of Washington DC**

1530 P St. NW, Washington DC, 20005

PROGRAM



The Policy Studies Organization

1527 New Hampshire Ave NW

Washington DC, 20036

www.ipsonet.org

Welcome!

Be sure to pick up at the registration table your complimentary copies of the conference proceedings as newly published in **Review of Policy Research** and **Politics & Policy**. A supply of PSO past publications is also available for the taking.

The caterer in the rotunda has coffee, sandwiches and other drinks for a nominal sum. There is a pleasant dining room nearby the rotunda. We would like to thank everyone at Carnegie: the use of such a great and historic building is a privilege.

Daniel Gutierrez will be at the registration desk all day if you need help. Mike, the AV person, will be around this morning if you need help with the equipment. Note that the library is reached by elevator.

We will be meeting with the National Democratic environment and technology task force on this December 12th about follow up for the Summit, and they will be contacting some of the Summit speakers about presenting their ideas to the ND group.

An important note to all presenters: Please do not read your paper. Speak from it about the issues. Please emphasize what you think should happen in terms of policy and legislation. We are very pleased to have members of the transition teams with us, and hope this meeting will be useful to the new administration.

Please bring each session to a close 5 minutes or more before the next session, as a courtesy to the next panel. Watch the times –if there is an hour session, and two papers, then each presenter should have twenty minutes, there should be 15 minutes for discussion, and the session should adjourn with 5 minutes to spare before the next session. With multiple presenters, apportion the time and leave time for questions.

We hope to hold the Dupont Summit on December 4th 2009 at Carnegie again. If you have ideas for it, do contact Daniel Gutierrez.

9:00 – 10:00 am
Plenary Session
1
Auditorium

**THE CHALLENGES OF THE INVESTMENT
COMMUNITY IN AREAS OF EMERGING
TECHNOLOGIES**

Chair: Guillermo Izabal.
PricewaterhouseCoopers

David R. Oppenheimer
Founder, Prime Oppenheimer
Chairman & Chief Technology Officer

JP Singh
Associate Professor, Communication, Culture & Technology
Program
Georgetown University

10:00 – 11:00 am
Session 2
Auditorium

**THE ARCTIC: US POLICY OPPORTUNITIES AND
CHALLENGES IN A DYNAMICALLY CHANGING
REGION**

Chair: Malcolm Williams
Captain, USCG (ret),
US Coast Guard Academy

Scott G. Borgerson
Visiting Fellow for Ocean Governance
Council on Foreign Relations

Mead Treadwell
Chairman
US Arctic Research Commission

10:00 – 11:00 am
Session 3
Library

**WATER POLICY IN THE NEW ADMINISTRATION:
OPPORTUNITIES FOR FEDERAL LEADERSHIP**

Chair: Sarah Michaels
Professor, Department of Political Science
University of Nebraska

Robert M. Hirsch
Associate Director for Water
US Geological Survey

Stephen Parker
Director, Water Science & Technology Board
National Research Council

Leonard A. Shabman
Resident Scholar
Resources for the Future

10:00 – 11:00 am
Session 4
Mayor Room

BIOFUELS AND CLIMATE: THE DISCUSSION

Chair: Guillermo de los Reyes
Professor, Latin American Studies
University of Houston

Marcia Davitt
Science & Technology Program
Virginia Polytechnic Institute
*An Exploration of the Biofuels Socio-Technological Trajectory:
Reframing the Policy Discussion*

John Vanden Brooks
Postdoctoral Fellow, School of Life Sciences
Arizona State University
*Variable Atmosphere Laboratory: Studying the Effects of
Climate Variation*

10:00 – 11:00 am
Session 5
Boardroom

**CHALLENGE AND CHANGE IN SCIENCE AND
TECHNOLOGY POLICY IN THE NEW
ADMINISTRATION**

Chair: Warren Eller
Associate Director, Stephenson Disaster Management Institute
Louisiana State University

Jeffrey Alexander
Director of Research & Chief Knowledge Officer
New Economy Strategies
*The Critical Role of Federal Research and Development Data in
Supporting Regional Innovation*

Lenneal Henderson
Senior Fellow, William Donald Schaefer Center for Public Policy
University of Baltimore
*Decision Rules for Research and Development Funding for
Renewable Energy Policy*

Robert McCreight
George Washington University
*Science, Technology and the New President: Advancing Security,
Prosperity and Resilience in the 21st Century*

11:00 - 12:00 pm
Session 6
Boardroom

**STEM CELL RESEARCH POLICY IN A NEW
ADMINISTRATION**

Chair: James Fosset
Rockefeller Institute of Government
*Stem Cell Policy Making and Finance in a New
Administration*

Sean Philpott
Chief Science and Ethical Officer
Program for Appropriate Technology in Health
Stem Cell Innovations and the Policy Process

Bonnie Steinbock
Professor, Department of Philosophy
State University of New York – Albany
Emerging Bioethical Issues in Stem Cell Policy

Amy Campbell
State University of New York
Upstate Medical Center
Emerging Legal Issues in Stem Cell Research

11:00 12:00 pm
Session 7
Mayor Room

**CAUTION ON GENETIC ENGINEERING
DEVELOPMENTS IN VIEW OF UNCERTAINTIES OF
MODERN FUNDAMENTAL SCIENCE**

Chair: Guillermo Izabal.
PricewaterhouseCoopers

Simon Berkovich
George Washington University

Yan Koifman
Neurosurgeon
Neuroscience & Surgery Institute of Delaware

Session 8
**This session will be*
extended until
12:30 pm
Auditorium

**MONITORING AND MANIPULATING THE HUMAN
BRAIN: NEW SOCIETAL CHALLENGES FROM
NEUROSCIENCE**

Chair: Martha Farah
Director, Center for Cognitive Neuroscience
University of Pennsylvania

Gary Lynch
Department of Psychiatry and Human Behavior
University of California, Irvine

Stacey Tovino
Law School
Drake University

12:30 – 2:00 pm
Plenary Session 9
Auditorium

**TECHNOLOGICAL IMPERATIVES OF THE
TRANSATLANTIC MARKET**

Chair: Richard Conn Henry
Professor of Physics and Astronomy
Johns Hopkins University

Michael Maibach
President
European-American Business Council
*Regulatory Harmonization: Market Size Problems in Defense
and Technology Procurements. Creating an Adequate Market
Size for New Technologies*

John Williamson
Senior Fellow
Peterson Institute for International Economics
*Creating Market Size and Stability Adequate for Large-scale
Technological Development and Procurement*

Richard Rosecrance
Professor, John F. Kennedy School of Government
Harvard University
*Creating More Adequately Funded Technology Development
Programs and Consistent Joint Regulation of Dangerous
Technologies and Technology Exports*

Marcus Schaper
Visiting Professor, Political Science Department
Reed College
Avoiding Regulatory Islands for Nanotechnology Regulation

2:00 – 3:00 pm
Session 10
Library

AGING, TECHNOLOGY AND HEALTH

Chair: Kate Tulenko

Health Specialist
World Bank

Andrew J. Carle

Director, Assisted Living/Senior Housing Administration
George Mason University

Linda Barret

Researcher
American Association of Retired Persons

2:00 – 3:00 pm
Session 11
Mayor Room

INTELLIGENTLY DESIGNING DELIBERATIVE HEALTH CARE FORUMS: DEWEY'S METAPHYSICS, COGNITIVE SCIENCE AND A BRAZILIAN EXAMPLE

Chair: Guillermo de los Reyes

Professor, Latin American Studies
University of Houston

Shane Ralston

Pennsylvania State University

2:00 – 3:00 pm
Session 12
Boardroom

SCIENCE, TECHNOLOGY AND RESEARCH IN A TIME OF CRISIS

Chair: Guillermo Izabal

PricewaterhouseCoopers

Cheryl Leggon

Associate Professor, School of Public Policy
Georgia Institute of Technology

*Competitiveness, Innovation and Diversifying the Science,
Technology, Engineering and Mathematics Labor Forces in the
US*

Toby Carlson

Professor Emeritus, Department of Meteorology
Pennsylvania State University

A Crisis for Academic Science

Session 13
**This session will be*
extended until 4:00
pm
Auditorium

DOING SCIENCE IN THE 21ST CENTURY: EPISTEMIC COMMUNITIES AND STEM WORKFORCE DYNAMICS

Chair: David Kamens
Professor Emeritus
Northern Illinois University

Lisa Frehill
Executive Director, Commission on Professionals in Science and Technology
The Human Resources Pipeline: Developing US Science and Engineering Capacity

Ray Gamble
Director, Fellowships Office
National Academies
The Impact of Foreign Students on the US Science and Technology Workforce

Ryan Zelnio and Connie McNeely
School of Public Policy
George Mason University
Understanding the Global Interdependence of Scientists: A Case Study of Transnational Knowledge Networks in Nanotechnology Research

Lindsey Hopewell and Jong-on Hahn
George Mason University and George Washington University
The If, How and When of University Leadership Discourse on STEM Education in the Global Community

Cristopher Hill
Professor of Public Policy and Technology
George Mason University
Preparing the Scientific and Technical Workforce for the Post-Scientific Society. Addressing the New Realities.

3:00 – 4:00 pm
Session 14
Boardroom

CHALLENGES FROM ASIA TO AMERICAN SCIENCE AND TECHNOLOGY POLICY

Chair: Patrick Baker
President
The Clarewood Institute

Eric Weber
Professor, Department of Public Policy Leadership
The University of Mississippi

Learning from others. What South Korean Technology Can Teach the US

Min Suh Son

Professor, History of Science and Technology

Johns Hopkins University

Antiamericanism and Cyber Attacks in the 21st Century North Korea

Sunny Lee

Director

Institute for Korea-U.S. Political Development

Rethinking the US Strategy Toward Potential Nuclear Powers in Asia

3:00 – 4:00 pm

Session 15

Library

LOOKING TO THE POLICIES OF GENETICS IN THE NEW ADMINISTRATION

Chair: Warren Eller

Associate Director, Stephenson Disaster Management Institute

Louisiana State University

Amy Fletcher

Senior Lecturer, School of Political Science and Communications

University of Canterbury, New Zealand

Conservation Genetics and the Future of Extinction

Bonnie Stabile

Adjunct Professor, School of Public Policy

George Mason University

From Cloning to Stem Cell Research: Looking to the Laboratory of the States

3:00 – 4:00 pm

Session 16

Mayor Room

ORDER OUT OF DISORDER IN THE SCIENCE DEBATE

Chair: Lenneal Henderson

Senior Fellow, William Donald Schaefer Center for Public Policy

University of Baltimore

Barbara Billauer

Professor

Institute of World Politics

Vaccine Policy and Priority in an Uncertain World: Preventing Pandemic Pandemonium

Joseph Coates

Founder, Consulting Futurist, Inc.

The White House, the Congress and the Future: A Too Loose Engagement

4:00 – 5:00 pm
Plenary Session 17
Auditorium

SCIENCE BEYOND THE CLASSROOM

*The Royal Society of Arts convened an interactive roundtable discussion at Baruch College, New York City with a group of leading professionals from science, education, business, civil society and the media focused on solutions and innovations to the scientific literacy challenge and a consideration of the creative ideas and practical solutions to foster public engagement with the science, technology, engineering and mathematics education community. The moderators will here present current findings and discuss how science beyond the classroom can be taken further.

Chair: Frank Spring

F.R.S.A.

National Director

Royal Society of Arts in the US

Alan Friedman

F.R.S.A.

Former Director and CEO

New York Hall of Science

Cecily Selby

F.R.S.A.

New York University

Discussant: Paul Rich

F.R.S.A.

President

Policy Studies Organization