



## **The Dupont Summit.**

*The New Administration's Challenges on Science & Technology Policy: Staying the Course in Times of Crisis*

December 4<sup>th</sup>, 2009 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](http://www.ipsonet.org)

## Welcome to the 2009 Dupont Summit

Paul Rich, *President, Policy Studies Organization*

There are two plenary sessions where we can all gather, one at 9 this morning in the Auditorium and one this evening at the Cosmos Club as guests of the Philosophical Society of Washington, the oldest scientific organization in the capital.

Refreshments are available during the day, with a complementary box lunch at noon, and we have set up tables to enable you to socialize with other delegates, and we hope you do! There will be a social hour after the evening presentation at the Cosmos.

The 2010 Summit will be here on the first Friday in December next year, so we are getting that word out well in advance. Contact Daniel Gutierrez at [dgutierrez@ipsonet.org](mailto:dgutierrez@ipsonet.org) with ideas. Be sure if he doesn't yet have your paper for publication that he gets it.

The Carnegie building is one of the more amazing and less well known architectural highlights of Washington. Look at the murals in the main auditorium and ceiling of the auditorium, which are world famous.

Kindly respect the times for the various panels. We have asked chairs to allow for questions and we hope if you have more to ask or say that you will continue the conversation outside the room so the next panel can get started.

Ideally, panels should end five minutes before the ending time allowed and start five minutes after the starting time. The audience can help with this. Be tolerant of those entering a panel a bit late and blame it on us for our tight scheduling. If a panel is chock full, consider an alternative panel.

Remember that the Library is accessible by elevator and the other rooms are off the Rotunda. The map shows cloakrooms and washrooms. The various journals are yours to take away.

9:00 – 10:00 am  
Plenary Session  
Auditorium

**STRATEGIC SCIENCE AND DEMOCRACY**

**Chair: Paul Rich**  
Policy Studies Organization

**Eric J. Novotny**  
Civilian Research & Development Foundation  
*International Science and Technology Cooperation: Issues and Strategies for U.S. Policy.*

**Robert McCreight**  
George Washington University  
*Technology Assessment: Democracy's Crucible for the Future of Science.*

**Sunny Lee**  
Institute for Korea-U.S. Political Development  
*Effective Denuclearization Policy in U.S. Military Strategy: The Case of North Korea.*

10:00 – 11:00 am  
Session 2  
Board Room

**INFORMATION TECHNOLOGY AND REFORMING HEALTH CARE DELIVERY IN AMERICA: THE STATUS AND PLANNED ADOPTION OF ELECTRONIC MEDICAL RECORDS (EMR)**

**Chair: Guillermo Izabal**  
PricewaterhouseCoopers LLP

**Albert Rubenstein**  
IASTA, Inc.

**Marshall Maglothin**  
Blue Oak Consulting, LLC.

**Elie Geisler**  
Illinois Institute of Technology

**Giuseppe Turchetti**  
Scuola Superiore Sant'Anna

10:00 – 11:00 am  
Session 3  
Dining Room

**ETHICS, POLICY, AND THE OBAMA ADMINISTRATION**

**Chair: Guillermo De Los Reyes**  
University of Houston

**Shane J. Ralston**  
Pennsylvania State University-Hazleton  
*Engineering an Artful and Ethical Solution to the Problem of Global Warming.*

**Lenneal J. Henderson**  
University of Baltimore  
*The Energy/Environment Policy Nexus in the Obama Administration.*

10:00 – 11:00 am  
Session 4  
Mayor Room

**EVIDENCE BASED POLICY: A GLOBAL CHALLENGE TO MEDICINE IN AN ERA OF MISTRUST**

**Chair: Arnauld Nicogossian**  
George Mason University

**Naoru Koizumi**  
George Mason University  
*Use of technology to design better health policies*

**Jessica Heineman-Pieper**  
George Mason University  
*Politics in Health Sciences & Policy*

**Arnauld Nicogossian**  
George Mason University  
*Communicating the Knowledge*

11:00 - 12:00 p.m.  
Session 5  
Dining Room

**GLOBAL HEALTH CHALLENGES**

**Chair: David Merchant**  
Policy Studies Organization

**Barbara Billauer**  
Foundation for Law and Science Centers  
*Pandemic Planning: Back to the Foundation.*

**Hanan Al Shargi**  
George Washington University  
*Epigenetic Problems in the Aspect of Fundamental Science and Health Applications.*

11:00 a.m. – 12:30  
p.m.  
Session 6  
Boardroom

## INTERNET AND COMMUNITY: WHAT DOES THE FUTURE HOLD?

**Chair: Nigel Cameron**  
Center for Policy on Emerging Technologies

**Erik Fisher**  
Arizona State University  
*Internet, Community and Assessment*

**Michael R. Nelson**  
Georgetown University  
*The Crowd, the Cloud, and Peer-to-Peer Governance*

**Jules Polonetsky**  
Future of Privacy Forum  
*Personal Information: Intelligence That Will Power the Smart Grid And The Achilles' Heel That Could Take It Down*

**Erica Newland**  
Center for Democracy and Technology  
*Refocusing the FTC's Role in Privacy Protection*

**Jeff LaCagna**  
Principled Innovation, LLC.  
*Professional Associations and the Social Web: What Does the Future Hold?*

11:00 - 12:00 pm  
Session 7  
Library

## SOLUTION TO THE ENERGY/CLIMATE CHANGE CONUNDRUM

**Chair: Christopher Gore**  
Ryerson University

**Simon Berkovich**  
George Washington University  
*Quantum Non-locality and Striving for a New Idea to Discover a Clean and Abundant Source of Energy.*

**Sarmistha Rina Majumdar**  
Sam Houston State University  
*Ushering in an Era of Environmentally Friendly Vehicles.*

1:00 – 2:00 pm  
Session 8  
Library

**SCIENCE DURING CHALLENGING TIMES: THEORY  
METHODS AND CASE STUDIES**

**Chair: Rex Kallembach**  
Policy Studies Organization

**Catherine P. Slade**  
Arizona State University

**Erik Fisher**  
Arizona State University

**Derrick Anderson**  
Arizona State University

**Genevieve Maricle**  
U.S. Agency for International Development

1:00 – 2:00 pm  
Session 9  
Mayor Room

**THE OBAMA ADMINISTRATION'S CHALLENGES  
AFTER THE "WAR ON SCIENCE": REFORMING  
STAFFING AND PROTECTING SCIENTIFIC  
INTEGRITY**

**Chair: Guillermo De Los Reyes**  
University of Houston

**Justin S. Vaughn**  
Cleveland State University

**Jose Villalobos**  
University of Texas at El Paso

1:00 – 2:00 pm  
Session 10  
Board Room

**INCREASING CLIMATE SCIENCE LITERACY:  
POLICYMAKERS, EARTH SCIENTISTS, EDUCATORS  
AND STUDENTS**

**Chair: Paul Rich**  
Policy Studies Organization

**Elizabeth Mills**  
American Meteorological Society

**Paul Higgins**  
American Meteorological Society

2:00 – 3:00 pm  
Session 11  
Board Room

**BUILDING NEW ENERGY ECONOMICS: POLICY AND BUSINESS MODELS**

**Chair: Guillermo Izabal**  
PricewaterhouseCoopers LLP

**Lisa Daniels**  
Windustry

**Edmin T.C. Ing**  
Windustry

2:00 - 3:00 p.m.  
Session 12  
Dining Room

**CLIMATE CHANGE: THE FUTURE OF A CRISIS**

**Chair: David Merchant**  
Policy Studies Organization

**So Young Kim**  
Korea Advanced Institute of Science & Technology  
*Behind the Consensus: An Anatomy of Global Public Opinion on Climate Change Policies.*

**J. Scott Armstrong**  
University of Pennsylvania  
*Forecasting Climate Change: Application of Evidence-Based Forecasting Principles.*

2:00 – 3:00 pm  
Session 13  
Mayor Room

**POLICY IN SCIENCE AND ENGINEERING GRADUATE EDUCATION: BUILDING BOUNDARY SPANNING COMPETENCE**

**Chair: Guillermo De Los Reyes**  
University of Houston

**Nicolas P. Lovrich**  
Washington State University

**William W. Budd**  
Washington State University

**Steven D. Stehr**  
Washington State University

3:00 – 4:30 pm  
Session 14  
Board Room

## THE STEM WORKFORCE AS PROBLEM AND PROMISE

**Chair: Jong-on Hahm**  
National Science Foundation

**Robert V. Hamilton**  
National Aeronautics and Space Administration  
*Highly-Skilled Migration: The Case of Foreign Science and Engineering Doctorates at U.S. Universities.*

**Sorina Vlaicu and Connie L. McNeely**  
George Mason University  
*An Exploration of Institutional Hiring Patterns.*

**Lisa Frehill**  
Commission on Professionals in Science and Technology  
*Retention in Engineering: Discipline, Gender, Race/Ethnicity, and Innovation.*

**Jay Labov**  
The National Academies  
*STEM Education and the STEM Workforce: Needs for the 21st Century.*

**Jong-on Hahm**  
National Science Foundation  
*The U.S. STEM Workforce: The Long View and the Short View.*

3:00 – 4:00 pm  
Session 15  
Library

## INTERNET INVESTMENT AFTER THE CRISIS

**Chair: Guillermo Izabal**  
PricewaterhouseCoopers LLP

**Eric T. Weber**  
University of Mississippi  
*A Historical Mandate for Expanding Broadband Internet Infrastructure.*

**Darrene L. Hackler**  
George Mason University  
*Technology-Based Economic Development in Cities: The Logic of Broadband Investment in the Post-Boom Era.*



3:00 – 4:00 pm  
Session 16  
Dining Room

## FUTURES OF SCIENCE AND TECHNOLOGY POLICY

**Chair: Christopher Gore**  
Ryerson University

**Alan J. Tompkins**  
University of Nebraska  
*Public Engagement for Informing Science and Technology Policy:  
What do We Know? And What do We Need to Know?*

**Liz Johnson**  
University of North Carolina at Charlotte  
*Science and Technology Innovation as a Complex Adaptive  
System: Adapting Policy Typologies and Mechanisms.*

**Michael Simpson**  
Computer Sciences Corporation  
*From Clouds to Weeds: Science and Technology Policy With a  
Different Vision.*

8:15 – 9:30 pm  
Plenary Session  
Cosmos Club  
John Wesley Powell  
Auditorium

## A BRIEF HISTORY OF COSMIC EXPANSION AND ACCELERATION

**Adam Riess**  
Johns Hopkins University

Cosmos Club, John Wesley Powell Auditorium. 2170 Florida Avenue NW, Washington DC 20008. Entrance is through the club gate, the first right-hand entrance on Florida Avenue north of the intersection with Massachusetts Avenue NW. The auditorium entrance is to the left of the gate. The Cosmos Club is within walking distance of the Dupont Circle Metro stop (Q Street exit), the Connecticut Avenue bus routes (L2, L4), and the Massachusetts Avenue bus routes (N2, N4).