Dupont Summit 2011

Pressing Issues, Little Time

Friday, December 2, 2011
Carnegie Institution for Science
1530 P Street NW
Washington, DC 20005

Sponsored by the Policy Studies Organization and American Public University System, in cooperation with the Philosophical Society of Washington, the Royal Society of Arts and the American Astronautical Society.
Again we meet...

We deeply appreciate those presenting papers and chairs. The increased participation of government agencies, foundations, private business, and universities, shows that the Summit fills a need for friendly exchanges about such important topics.

It is a great honor to again be at Carnegie Institution, the great architectural work of John Carrere and Thomas Hastings in 1905. They also designed the Russell and Cannon buildings on Capital Hill, and the Cosmos Club where this evening’s plenary lecture with the Philosophical Society will be given.

This year we are presenting Dupont Summit medals to all presenters and chairs. There is a European custom of congresses presenting medals, which academics wear in processions such as graduations, and we felt this was a good tradition to inaugurate.

The medal carries the torch, a symbol of enlightenment. This is the armorial device of the American Public University System as well, and it gives us an opportunity to express our thanks to APUS and to president Wallace Boston for their support of the annual PSO conferences. We particularly want to thank Fred Stielow, APUS Vice President for his help during this conference.

On February 2012 we will host the Middle East Dialogue at the Woman’s National Democratic Club, where we have so many notable events and whose President, Nuchhi Currier, is with us today. We wish to mention the continuing support of the Royal Society of Arts. We are pleased to have with us the Editors of the World Medical and Health Policy Journal, Arnauld Nicogossian and Bonnie Stabile, and of the Review of Policy Research Journal, Christopher Gore, as well as the Treasurer of the PSO, Rex Kallembach, and David Oppenheimer of TRL9.

We are lucky to have two graduate students on our staff this year, Michael Horka from George Washington University and Dana Kauffman from Georgetown, and we want to signal out their work in our conference planning.

Our meeting today fulfills the idea that President Theodore Roosevelt and Andrew Carnegie, at a long-ago dinner, hatched of a temple to science in the capital – where just such conversations as yours today might take place. The next Dupont Summit will be on Friday December 7th 2012, and we invite you to send your ideas early.

Paul Rich, President
Daniel Gutierrez-Sandoval, Executive Director
Policy Studies Organization.
Practical Information

Speakers and Chairs please respect the time allotments, and be sure to vacate the room before the next group is scheduled. Please this is very important, as otherwise the circulation of audiences will be frustrating. Do take your conversations to the Ballroom area, where you can continue them in a pleasant atmosphere.

If you are a presenter or panelist and did not get your medal at registration, please ask for it at the registration desk.

Refreshments are provided all day in the Ballroom. A lunch assortment will be served from 12:00 to 2:00 pm.

Kindly respect this nationally important historic building. If you take something to one of the meeting rooms, be particularly careful. And take away your remnants out of courtesy to the next presenters.

Wireless Internet connection is available in the building. Competent audio-visuals technicians are at the conference all day if you need help with your equipment.

Washrooms and the cloakrooms are off the corridor near the downstairs entrance, where you entered the building. So are the elevators, which stop at the second floor and third floors. The Library being used for panels today is on the third floor, so take the elevator from the first or second floors.

Videos of some panels will be on the PSO site some days after the event. We will keep you all updated!

We have placed one or another of our twelve journals in the registration bags. All of them are available online with full information on the PSO site at www.ipsonet.org.
Special Meetings

There will be a special table in the Ballroom designated for some special meetups:

- 10:15 am – Bonnie Stabile, Managing Editor, *World Medical and Health Policy*: publishing opportunities, getting involved with the journal.

- 12:00 pm – Brian Muys, Director, Public Relations, *American Public University System*: opportunities for online teaching.

- 4:00 pm – Christopher Gore, Editor in Chief, *Review of Policy Research*: publishing opportunities and getting involved with the journal.
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<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Chair/Participants</th>
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<tr>
<td>9:00 – 10:15 am</td>
<td>Session 1</td>
<td>Museums as Mediums for Engaging Citizens in Climate Change Adaptation Scenario Planning</td>
<td>Chair: Chris Gore, Editor-in-Chief, Review of Policy Research</td>
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<td>Boardroom</td>
<td></td>
<td>Cynthia Selin, Assistant Professor, Consortium for Science, Policy and Outcomes, School of Sustainability at Arizona State University</td>
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<td>Patrick Hamilton, Director, Global Change Initiatives at the Science Museum of Minnesota</td>
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<td>Robert Garfinkle, Director, Science and Social Change Program at the Science Museum of Minnesota</td>
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<tr>
<td>9:00 – 10:15 am</td>
<td>Session 2</td>
<td>The Complexities of Decision-Making at the Intersection of Science, Technology and Policy</td>
<td>Chair: Bonnie Stabile, George Mason University</td>
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<td>Mayor Room</td>
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<td>Mahmud Farooque, Associate Director DC Office, Consortium for Science, Policy and Outcomes, Arizona State University</td>
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<td>Travis Doom, Program Specialist, Consortium for Science, Policy and Outcomes, Arizona State University</td>
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<td>Science, Policy and Citizenship Program for High School Students</td>
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<td>Liz Johnson, Researcher, Complex Systems Institute</td>
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<td>Education Policy Options: Mediocre to Great in Science &amp; Technology</td>
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<td>9:00 – 10:15 am</td>
<td>Session 3</td>
<td>Why So Few? Women in Science, Technology, Engineering and Mathematics</td>
<td>Chair: Fred Stielow, Vice President, American Public University System</td>
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<td>Library</td>
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<td>Christianne Corbett, Senior Researcher, The American Association of University Women (AAUW)</td>
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<td>Erin Prangley, Associate Director of Government Relations, The American Association of University Women (AAUW)</td>
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<td>9:00 – 9:30 am</td>
<td>Session 4</td>
<td>Convergence of Tech Transfer, Knowledge Management, Electronic Medical Records, and a Central Research Lab in the Hospital Setting</td>
<td>Rex Kallembach, Kallembach &amp; Associates&lt;br&gt;Albert H. Rubenstein, President, IASTA, Inc.</td>
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<td>9:30 – 10:00 am</td>
<td>Session 5</td>
<td>Diversity Inclusion: Education, Security, Development and Prosperity</td>
<td>Liz Horn, Director, Genetic Alliance Registry &amp; BioBank&lt;br&gt;Michael Simpson, Fellow and Senior Principal Leader, CSC</td>
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<td>10:15 – 12:45 pm</td>
<td>Session 6 and 7</td>
<td>United States Space Exploration in the Next 20 Years</td>
<td>Arnauld Nicogossian, MD, Editor, World Medical and Health Policy Journal, and School of Public Policy, George Mason University</td>
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<td>Waleed Abdalati, NASA Chief Scientist&lt;br&gt;NASA Space Sciences Policy</td>
<td><strong>Mark L. Uhran, NASA Director, International Space Station Division</strong>&lt;br&gt;<em>The International Space Station: A New U.S. National Laboratory</em>&lt;br&gt;<strong>Richard S. Williams, MD, NASA Chief Health and Medical Officer</strong>&lt;br&gt;<em>Prospects for Space Medicine Practice</em>&lt;br&gt;<strong>Franceska O. Schroeder, Principal, Fish &amp; Richardson P.C.</strong>&lt;br&gt;<em>Commercial Space: Questions Regarding the Legal and Regulatory Environment</em></td>
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## Session 8: Sustainability Policy Analysis: What it Means and What It Offers

**Chair:** Fred Stielow, Vice President, American Public University System

**Speakers:**
- Karen J. Baehler and Daniel J. Fiorino, Center for Environmental Policy, American University

## Session 9: Creative Narrative: Forging a Working Bond Between Next Generation Science Communicators and Science Policy Scholars

**Chair:** Mark Zachary Taylor, Georgia Institute of Technology

**Speakers:**
- Lee Gutkind, Distinguished Writer in Residence, Consortium for Science, Policy and Outcomes, Professor, Hugh Downs School of Human Communication, Arizona State University; Founder and editor, Creative Nonfiction Magazine
- Gwen Ottinger, Assistant Professor, Interdisciplinary Arts and Sciences Program, University of Washington-Bothell
- Ross Carper, Founding Editor, Beyond the Bracelet

## Session 10: Engaging Citizen-Scientists in Translational Research

**Chair:** Gregg Pascal Zachary, Arizona State University

**Speakers:**
- Liz Horn, Director, Genetic Alliance Registry & BioBank

## Session 11: Science & Technology Policy and Employment: The Neglected Questions

**Chair:** Liz Johnson, Researcher, Complex Systems Institute

**Speakers:**
- Gregg Pascal Zachary, Arizona State University
### Session 12
**11:00 – 11:30 am**
*Founders Room*

**Chair**: Stuart Rothenberg, MD, Maharishi Ayurveda Association of America

**Robert Schneider**, Director, Institute for Natural Medicine and Prevention

**The Contribution of Mind-Body Medicine to Prevention of Cardiovascular Disease**

* A book related to this session, authored by the speaker, is available at the registration desk.

### Session 13
**11:30 – 12:45 pm**
*Mayor Room*

**Chair**: Chris Gore, Editor-in-Chief, Review of Policy Research

**Dorothy Miller**, Environmental Protection Agency

**Bill Valdez**, Department of Energy

**STAR Metrics: A Breakthrough in Science & Technology Policy Analysis**

### Session 14
**11:30 – 12:45 pm**
*Library*

**Chair**: JP Singh, Georgetown University

**Simon Berkovich**, George Washington University

**Lev Bernstein**, BLL, Inc.

**Charles Garris**, George Washington University

**David Nagel**, George Washington University

**Prospects for Resolution of Energy Problems with the Invention of E-Cat Device by Andrea Rossi**

### Session 15
**11:30 – 12:00 pm**
*Founders Room*

**Chair**: Brian Muys, Director, Public Relations, American Public University System

**Michael Givel**, University of Oklahoma

**Theoretical and Applied Features of Free Markets, The State and Agency Capture, and Corporate Actions in FDA Regulations of Tobacco Products**
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| 12:00 – 12:30 pm| Session 16 | Founders Room | Boosting the Nascent Clean Economy: Making Innovation Central to Climate and Energy Policy | Chair: H. Sterling Burnett, National Center for Policy Analysis  
Matthew Stepp, Clean Policy Energy Analyst, Information Technology and Innovation Foundation |
| 12:30 – 1:00 pm | Session 17 | Founders Room | The National Security Implications of the Push for Green Energy | Chair: Matthew Stepp, Clean Policy Energy Analyst, Information Technology and Innovation Foundation  
H. Sterling Burnett, National Center for Policy Analysis |
| 12:45 – 1:30 pm | Session 18 | Boardroom | The Policy Nexus of Food Security, Climate Change, and Sustainability | Chair: Alan Tomkins, Office of Global Food Security, U.S. Department of State  
Nwadiuto Esiobu, Office of Global Food Security, U.S. Department of State  
Introduction and Overview  
Eric Luftman, Senior Advisor for Food Security, Bureau of Economic, Energy and Business Affairs, U.S. Department of State  
Current Food Security Policies  
Caitlin Welsh, Office of Global Food Security, U.S. Department of State  
Impacts of Food Security Policy in Africa: Observations from the Field  
Marcella Szymanski, Bureau of Economic, Energy and Business Affairs, Agriculture and Biotech Trade Affairs Division, U.S. Department of State  
Agricultural Technologies |
### 1:30 – 2:45 pm
**Session 19**
*Boardroom*

**Future Directions in Science, Technology and Environmental Policy Research: Reflections on Demand and Supply**

**Chair:** Wallace E. Boston, *President & CEO, American Public University System*

- Christopher Gore, *Editor-in-Chief, Review of Policy Research*
- Zachary Taylor, *Georgia Institute of Technology*
- Kei Koizumi, *White House Office of Science and Technology Policy*
- Dorothy Miller, *Environmental Protection Agency*

### 1:30 – 3:30 pm
**Sessions 20 and 21**
*Library*

**Policy Implications of Space Weather and Long-term Power Outages**

Panel 1 of 2: Threat and Response From All-of-Nation Perspective: Federal and Industry Level Response

**Chair:** Chuck Manto, *InfraGard National EMP SIG Manager*

- Richard Andres, *NDU Energy and Environment Program Chair*
- NDU Solar Weather and Grid Vulnerability Exercises
- Genene Fisher, *NOAA*
  *Space Weather and Grid Security*
- Scott Pugh
  *Grid Security. DHS Science and Technology*
- Dennis McGinn, *President, ACORE*
  *Renewable Energy and Local Power Generation*
Panel 2 of 2: Threat and Response From All-of-Nation Perspective: Legislative, State and Local Community Response

**Chair: Dave Hunt, CRA**

**Mary Lasky**, responsible for COOP at Johns Hopkins Applied Physics Lab and chairman of the Howard County Community Emergency Response Network

**State and Local All-hazards Planning and Preparation**

**George Baker**, James Madison University, IIIA

**Man-made EMP Threats From Solar Storms and Policy Implications**

**Trent Franks**, Congressman, Co-chair House EMP Caucus

**Legislative Issues and the Shield Act**

**Charles Manto**, InfraGard National EMP SIG Manager

**InfraGard and Local Resilience**

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<th>1:30 – 2:00 pm</th>
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<td><strong>Session 22</strong></td>
<td><strong>Founders Room</strong></td>
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<td><strong>Chair: Glen Sussman, Old Dominion University</strong></td>
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<td><strong>Bogumil Terminski, University of Warsaw</strong></td>
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<th>2:00 – 2:30 pm</th>
<th>A Great Ship Asks Deep Waters: The Deep Water Royalty Relief Act and the 1990s Oil Boom in the Gulf of Mexico</th>
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<td><strong>Session 23</strong></td>
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<td><strong>Chair: Fred Stielow, Vice President, American Public University System</strong></td>
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<td><strong>Joel P. Hewett, Georgia Institute of Technology</strong></td>
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| 3:30 – 4:00 pm | 31      | The Sociopolitical Implications of the Global Spread of Modern Banking Technologies | Cory Connolly, Roosevelt Institute Campus Network  
Nancy Hite, Yale University |
| 4:00 – 4:30 pm | 32      | Framing Nanotechnology Policy: A Case Study of the Project on Emerging Nanotechnologies | David R. Oppenheimer, TRL9  
Evan Michelson, New York University |
| 4:30 – 5:00 pm | 33      | Trends in Science, Technology and Education                         | David R. Oppenheimer, TRL9  
Daniel Benjamin, Interim Dean, School of Science and Technology, American Public University System |
| 8:15 – 9:30 pm | Plenary | Trading at the Speed of Light: Electronic Exchanges, Computational Trading and Artificial Intelligence in Financial Markets | Alexander D. Wissner-Gross, Research Affiliate, MIT Media Laboratory  
This lecture is sponsored by the Policy Studies Organization and American Public University System, and organized by the Philosophical Society of Washington. |

A substantial and growing volume of worldwide trading activity now is determined by Quantitative Finance (“QF”), which incentivizes the modeling of human group behavior to efficiently allocate capital. The distributed computation and communication capabilities of QF have become an integral part of the trading web and constitute a likely field for the emergence of artificial intelligence on a par in many respects with that of humans. This talk will discuss the brief history of electronic trading and Quantitative Finance, discuss the current architectures of the worldwide trading web, and explore the potential role of high-frequency financial trading as a catalyst for the emergence of...
computational intelligence that not only is faster than human minds but also, physically, orders of magnitude larger (i.e., spanning the entire planet).

* 2170 Florida Ave. NW, Washington DC 20008. Entrance is through the Cosmos 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).