

# **DUPONT SUMMIT 2012**

December 7, 2012 \* Carnegie Institution for Science, Washington, DC

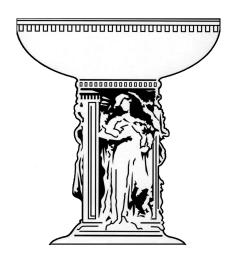
The Policy Studies Organization

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InfraGard National EMP SIG



## Welcome from PSO President, Dr. Paul Rich



Welcome to the fourth annual Dupont Summit. Material from the previous three is archived at <a href="www.ipsonet.org/conferences/the-dupont-summit">www.ipsonet.org/conferences/the-dupont-summit</a>, and the videos from today will be there as well. Today's program can be viewed from your mobile devices directly at <a href="www.ipsonet.org/images/files/Dupont/Full\_Dupont\_Program\_web.pdf">www.ipsonet.org/images/files/Dupont/Full\_Dupont\_Program\_web.pdf</a>. The auditorium session will be broadcast live and can be viewed at <a href="www.livestream.com/policystudiesorganization">www.livestream.com/policystudiesorganization</a>. Housekeeping notes: restrooms are located by the downstairs entrance, along with the cloakroom. Some events are in the library on the third floor, reached by the elevators on the first floor near the registration desk, or near the auditorium on the second floor.

A list of today's participants is available at registration. Food service is continuous today, starting with breakfast, and is complimentary.

Appreciation: Our very sincere thanks to the American Public University System and its President Dr. Wally Boston, for their sponsorship. We also want to thank the Carnegie Institution, Royal Society of Arts, and the Philosophical Society of Washington. The PSO wants to warmly thank Chuck Manto and the InfraGard National Members Alliance Board; EMP SIG members and advisors, and very special thanks to the Federal Bureau of Investigation, especially Supervisory Special Agent Douglas Dvorak of the FBI District of Columbia Headquarters, and FBI Special Agent Lauren Schuler, Baltimore InfraGard Coordinator for exceptional support for the InfraGard National EMP SIG program and the Dupont Summit.

The Dupont Summit is to promote networking about science and technology issues, and it's always held on the first Friday in December when the capital is speculating about where the government and stakeholders see things going in the coming year. Many of the papers today will find their way to one or another of the Policy Studies Organization journals or to one of the books that PSO publishes. For more than forty years we have contributed to the quality of the public debate about substantive issues, and that tradition continues today. Perhaps we can publish you.

The building we are privileged to meet in was constructed in 1908 and is unique even in Washington. It carries out a challenge from Theodore Roosevelt to Andrew Carnegie to give the city a building that would witness to the role of science. The auditorium with its unique murals by Monroe Hewlett and its lighting depicting the sun and moon has hosted presentations by more than two-dozen Nobel laureates.

	Schedule at a Glance - Part 1 of 2								
	Track 1 - Boardroom	Track 2 - Mayor Room	Track 3 - Library		Track 4 - Auditorium				
9:00 - 10:00	"Worldwide Views on Biodiversity: An Analysis of Citizen Participation and Engagement in Policy Formulation" <b>Chair:</b> Mahmud Farooque	"A Truly Sustainable Renewable Future: The Role of Advanced Biofuels OR What's Moonshine Got to Do with It?"  Chair: Rex Kallembach	"The Evolving Research Enterprise: The Role of Foundations and Strategic Funding" <b>Chair:</b> Fred Stielow	8:40 - 8:50	"The Leadership Issue behind High Impact Threats"				
				8:50 - 9:00	"EMP Action, Too Little Too Late?"				
		"Light Village – a Fully Sustainable Energy, Housing and Mobility Design for Off-grid Communities" <b>Chair:</b> Rex Kallembach		9:00 - 9:25	"House Resolution 762 and the challenge to effectively engage the nation on infrastructure security and preparedness issues"				
10:10 - 11:10	Disasters, Infrastructure, Health, and Disparities Panel 1 of 2: "Disasters and Health Disparities" <b>Chair:</b> Arnauld Nicogossian	"Smarter Sustained Growth: How Tax Reform/Shifting Can Spur the U.S. Economy and Cut Pollution" <b>Chair:</b> Susan Rosenfeld	Approach to Technology	9:30 - 9:55	"InfraGard's Role in Infrastructure Security Across the Private Sector"				
				10:00 - 10:25	"EMP and Space Weather Grid Impacts - International Perspective"				
				10:30 - 10:55	"Engaging Utilities for Honest Appraisals of Grid Security"				
11:20 - 12:20	Disasters, Infrastructure, Health, and Disparities Panel 2 of 2: "Infrastructure and Disasters" <b>Chair:</b> Arnauld Nicogossian	"Rethinking Participatory Technology Assessment: Integrating Diverse Perspectives from the Community, Engineering and Sustainability" Chair: Frank McCluskey	"How Women in STEM Can Increase Women in STEM" <b>Chair:</b> Mamta Nagaraja	11:00 - 11:25	"Lessons from Japan, Obtaining Openness of Stakeholders in the Fukushima Disaster Recovery"				
				11:30 - 11:55	"Latest Advances in Solar Storm Grid Impact Modeling and Mitigation"				
				12:30 - 12:55	"Local Planning and Mitigation for High Impact Threats"				
12:30 - 1:30	"Local and Regional Adaptation Strategies to Climate Change: Sharing of Good Practices and Comparative Analysis between the U.S. and Germany" Chair: Rex Kallembach		"Complexity Science and U.S. Policy Theory and Practice: A Roundtable Discussion of Complexity as the Paradigm Game Changer" Chair: Michael Givel	12:50 - 12:55	"BENS Study on Micro-grids for Military Bases"				
				12:55 1:00	"National Preparedness Report 2012What's behind the FEMA Worst Case Scenario?"				
		"Geographic Patterns in Global Warming Understanding and in Willingness to Modify Behavior to Help Reduce Global Warming Impacts" <b>Chair:</b> Michael Horka		1:00 - 1:25	"The Challenge of High-impact Disaster Mitigation and role of DoD"				

	Schedule at a Glance - Part 2 of 2								
	Track 1 - Boardroom	Track 2 - Mayor Room	Track 3 - Library		Track 4 - Auditorium				
1:40 - 2:40	"Science Diplomacy in Action: Bridging Cultures and Supporting Development" <b>Chair:</b> Connie McNeely	"Advancing Technologies at Life's Beginning and End: Policy Implications for Women's Health and Wellbeing" Chair: Susan Rosenfeld	"Build for Success (B4S) - Designed to help technical start- ups and early stage companies bridge the 'Valley of Death'" Chair: JG de los Reyes	1:30 - 1:55	"Facilitating Contingency Planning for High-impact Disasters"				
			"Malaria Therapy in the Next 20 Years" <b>Chair:</b> Guillermo Izabal	2:00 - 2:25	"EMP Knots Untied – Common Misconceptions Regarding EMP"				
2:50 - 3:50	"Integrating Science Into Civic Engagement Through University-Community Research Collaborations: Promoting Environmental Health and Well-Being in Agricultural Communities" <b>Chair:</b> JG de los Reyes	"The Visible Hand: The Managerial Revolution in US Knowledge Production and the Future of Global Competitive Advantage in Science and Technology" <b>Chair:</b> Whitney Shepard	"The Future of Sustainability and the Resillience of Food Systems" <b>Chair:</b> Frank McCluskey	2:30 - 2:55	"The Cyber Executive Order"				
		"The 'Big Data' Initiative and Great Expectations for Shifting the Worldview Paradigm" Chair: Shawn Schulenberg	"The Digital University and the Future of Higher Education" <b>Chair:</b> Daniel Benjamin	3:00 - 3:25	"The Role of the new FERC Office of Energy Infrastructure Security and Proposed FERC Ruling on Geomagnetic Disturbance" and "Tech Reponse"				
4:00 - 5:00	"Low Energy Nuclear Reactions: Exciting New Science and Potential Clean Energy" <b>Chair:</b> David Oppenheimer	"High Speed Rail as the Centerpiece of Sustainable Transportation for America" <b>Chair:</b> Shawn Schulenberg	"Strengthening Sustainability Program Design: A Checklist Approach" <b>Chair:</b> Brian Cook	3:30 - 3:55	"Energy and National Security: Protecting our Ability to Use Electricity"				
		"Tracking the Technology Revolution: Highlights from the TechCast Project" <b>Chair:</b> Guillermo Izabal		4:00 - 4:25	"View of Next-gen local power generation and energy storage solutions coming next year (or two)"				
				4:30 - 4:55	"Wrap-up Panel with Director Peggy Maxson, National Cybersecurity Education Strategy, DHS"				
5:10 - 6:00	"The Political Dynamics of Policy Design: The Case of Climate Change Policy in the U.S." <b>Chair:</b> Rex Kallembach	"Elections Over: Whither STEM Innovation" <b>Chair:</b> Susan Rosenfeld	"North Korea's Nuclear Destination and International Security" <b>Chair:</b> Devin Proctor	5:00 - 5:05	"The Role of PSO, Academia, and InfraGard"				
				5:05 - 5:20	"New EMP threats, mitigation and testing capabilities"				
				5:20 - 5:30	"Role of EMP SIG Advisory and LIaison Panels; EMP SIG facilitators and Next Steps"				
				5:30 - 6:30	Open Discussion				

## Special Meetings at the Dupont Summit

9:00 a.m. - 12:30 p.m. and 1:30 - 3:30 p.m.

Learn about the possibilities of publishing in the new PSO journal Policy and Complex Systems.

Editor: Liz Johnson, George Washington University

Location: Ballroom. Look for the "Complexity" sign on a table near the food station.

12:00 - 1:00 p.m.

Learn about the possibilities of publishing in the World Medical & Health Policy journal.

Editor: Bonnie Stabile, George Mason University

Location: Ballroom. Look for the "WMHP" sign on a table near the food station.

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#### **SCHEDULE**

Boardroom, 9:00 - 10:00 am

"Worldwide Views on Biodiversity: An Analysis of Citizen Participation and Engagement in Policy Formulation"

Chair: Mahmud Farooque, PhD, Arizona State University

David Tomblin, PhD, *Virginia Tech* Steve Sanders, *Pomona College* 

Richard Worthington, PhD, Pomona College

Gretchen Gano, Arizona State University

David Sittenfeld, Museum of Science Boston

Mayor Room, 9:00 - 9:30 am

Chair: Rex Kallembach, Kallembach & Associates

"A Truly Sustainable Renewable Future: The Role of Advanced Biofuels Or What's Moonshine Got to Do with It?" Joanne Ivancic, *Advanced Biofuels USA* 

9:30 - 10:00 am

"Light Village — a Fully Sustainable Energy, Housing and Mobility Design for Off-grid Communities"

John E. Waters, Senior Fellow, Sagamore Institute

Library, 9:00 - 10:00 am

"The Evolving Research Enterprise: The Role of Foundations and Strategic Funding"

Chair: Fred Stielow, PhD, American Public University System
Janet Berkovitz, PhD, University of Illinois at Champaign-Urbana
Maryann Feldman, PhD, University of North Carolina at Chapel Hill
Mark Crowell, Executive Director of U. Va. Innovation, Associate Vice
President for Research, University of Virginia
Elana Koustova, PhD, NIH, National Institute of Drug Abuse
Max Wallace, JD, President and CEO, Accelerate Brain Cancer Cure

#### Auditorium

8:40 - 8:50

"The Leadership Issue behind High Impact Threats" Chuck Manto, *EMP SIG Chair* 

8:50 - 9:00

"EMP Action, Too Little Too Late?"

Dr. Peter Vincent Pry, Executive Director of the Task Force on National and Homeland Security

9:00 - 9:25 am

"House Resolution 762 and the Challenge to Effectively Engage the Nation on Infrastructure Security and Preparedness Issues"

Congressman Roscoe Bartlett

9:30 - 9:55 am

"InfraGard's Role in Infrastructure Security Across the Private Sector"

Richard A. McFeely, FBI, Executive Assistant Director, Criminal, Cyber, Response and Services Branch

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#### **SCHEDULE**

Boardroom, 10:10 - 11:10 am

"Disasters, Infrastructure, Health, and Disparities"

Panel 1 of 2, "Disasters and Health Disparities"

Chair: Arnauld Nicogossian, PhD, CSIMPP, George Mason University, and

Senior Editor World Medical & Health Policy

JD Polk, PhD, U.S. Department of Homeland Security

Dan Hanfling, PhD, INOVA Health System

Mayor Room, 10:10 - 11:10 am

"Smarter Sustained Growth: How Tax Reform/Shifting Can Spur the U.S. Economy, Jobs, and Cut Pollution"

Chair: Susan Rosenfeld, PhD, FSR Associates

Rob Wolcott, Get America Working, former USEPA Deputy Asst.

Administrator, Office of Policy

Robert Shapiro, PhD, Sonecon, LLC, former Under Secretary of Commerce

for Economic Affairs

Roberton Williams, PhD, Resources for the Future and University of

Maryland

Library, 10:10 - 11:10 am

"A Distributed, Collaborative and Non-Partisan 21st Century Approach to Technology Assessment: From Concept to Practice"

Chair: Mahmud Farooque, PhD, Arizona State University

Darlene Cavalier. Science Cheerleader

Gretchen Gano, Arizona State University

David Sittenfeld, Museum of Science Boston

Richard Worthington, PhD, Pomona College

Mikko Rask, PhD, Finland National Consumer Research Center

Naba Barkakati, PhD, U.S. Government Accountability Office

Rachelle Hollander, National Academy of Engineering

#### **Auditorium**

10:00 - 10:25 am

"EMP and Space Weather Grid Impacts - International Perspective"

Chris Beck, PhD, EIS Council

10:30 - 10:55 am

"Engaging Utilities for Honest Appraisals of Grid Security"

Tom Popik, Foundation for Resilient Societies and NERC Geomagnetic Disturbance Task Force Observer

11:00 - 11:25 am

"Lessons from Japan, Obtaining Openness of Stakeholders in the Fukushima Disaster Recovery"

Yuki Karakawa, Japan Resilience Initiative Task Force

SCHEDULE

## Boardroom, 11:20 am - 12:20 pm

"Disasters, Infrastructure, Health, and Disparities"

Panel 2 of 2, "Infrastructure and Disasters"

Chair: Arnauld Nicogossian, PhD, CSIMPP, George Mason University, and

Senior Editor World Medical & Health Policy

Richard Diecchio, PhD, George Mason University

Allison Macfarlane, PhD, Chairman, Nuclear Regulatory Commission

William Hooke, PhD, Director- Policy Program, American Meteorological Society

## Mayor Room, 11:20 am - 12:20 pm

"Rethinking Participatory Technology Assessment: Integrating Diverse Perspectives from the Community, Engineering and Sustainability"

**Chair:** Frank McCluskey, PhD, *American Public University System* Richard Rushforth, *Arizona State University* Tomasz Kalinowski, *Arizona State University* Rider Foley, *Arizona State University* 

#### Library, 11:20 am — 12:20 pm

## "How Women in STEM Can Increase Women in STEM"

Chair: Mamta Nagaraja, PhD, Women@NASA Project Manager, NASA Kamla Modi, PhD, Research Analyst, Girl Scout Research Institute
Lance Bush, PhD, CEO and President, Challenger Center for Science Education Keren Witkin, PhD, Health Scientist, National Institutes of Health
Terry Woods, PhD, Solid Mechanics Lab Lead, Food and Drug Administration Morgan Occhuizzo, Teacher and Resource Manager, Fairfax County Public Schools

#### Auditorium

11:30 - 11:55 am

"Latest Advances in Solar Storm Grid Impact Modeling and Mitigation"

**Dupont Summit 2012** 

John Kappenman, Storm Analysis

#### **SCHEDULE**

Boardroom, 12:30 - 1:30 pm

"Local and Regional Adaptation Strategies to Climate Change: Sharing of Good Practices and Comparative Analysis between the U.S. and Germany"

Chair: Rex Kallembach, Kallembach & Associates Grit Martinez, Duke University / Ecologic Institute Tanja Srebotniak, Ecologic Institute Jeff Allenby, Chesapeake Conservancy

Mayor Room, 12:30 — 1:00 pm

"Technology, Innovation, Education, and Policy"

Chair: Fred Stielow, PhD, American Public University System

Daniel Benjamin, Dean - School of Science and Technology, American Public University

Daniel Welsch, PhD, American Public University

1:00 - 1:30 pm

"Geographic Patters in Global Warming Understanding and in Willingness to Modify Behavior to Help Reduce Global Warming Impacts"

**Chair:** Michael Horka, *Policy Studies Organization*Jay Searles, *American Public University*Daniel Welsch, PhD, *American Public University* 

Library, 12:30 - 1:30 pm

"Complexity Science and U.S. Policy Theory and Practice: A Roundtable Discussion of Complexity as the Paradigm Game Changer"\*

Chair: Michael Givel, PhD, University of Oklahoma

Robert Geyer, PhD, Lancaster University

Liz Johnson, *George Washington University* and *Complex Systems Institute* Lon Jones, D.O., *Common Sense Medicine* 

#### **Auditorium**

12:30 - 12:50 pm

"Local Planning and Mitigation for High Impact Threats"

Mary Lasky, *Howard County Community Emergency Response Network* 

12:50 - 12:55 pm

"BENS Study on Micro-grids for Military Bases"

Mr. Jeff Weiss, Co-Chairman, Distributed Sun

12:55 - 1:00 pm

"National Preparedness Report 2012 -- What's behind the FEMA Worst Case Scenario?"

Chuck Manto, EMP SIG Chair

1:00 - 1:25 pm

"The Challenge of High-impact Disaster Mitigation and Role of DoD" Assistant Secretary Paul Stockton, PhD, *U.S.* Department of Defense

<sup>\*</sup>This panel is related to a new journal on Policy and Complex Systems to be published by the PSO. See the call for papers at the end of the program.

SCHEDULE Dupont Summit 2012

## Boardroom, 1:40 - 2:40 pm

"Science Diplomacy in Action: Bridging Cultures and Supporting Development"

Chair: Connie L. McNeely, PhD, George Mason University
Jong-on Hahm, PhD National Science Foundation
Mary Oakes Smith, Iraqi Women's Fellowship Foundation
Vaughan C. Turekian, PhD, American Association for the
Advancement of Science
Matt Gerdin, PhD, U.S. Department of State
Linda Staheli, CRDF Global

Mayor Room, 1:40 - 2:40 pm

"Advancing Technologies at Life's Beginning and End: Policy Implications for Women's Health and Wellbeing"

**Chair:** Susan Rosenfeld, PhD, *FSR Associates* Lisa Eckenweiler, PhD, *George Mason University* Bonnie Stabile, PhD, *George Mason University* 

Library, 1:40 - 2:10 pm

"Build for Success (B4S) - Designed to help technical start-ups and early stage companies bridge the 'Valley of Death'"

**Chair:** Guillermo De Los Reyes, PhD, *University of Houston*Al Rubenstein, PhD, Professor Emeritus, *Northwestern University*Walter Finkelstein, CEO of *B4S* 

2:10 - 2:40 pm

"Malaria Therapy in the Next 20 Years"

Chair: Guillermo Izabal, PricewaterhouseCoopers LLP

Paul D. Roepe, PhD, Georgetown University

#### Auditorium

1:30 — 1:55 pm

"Facilitating Contingency Planning for High-impact Disasters"

Richard Andres, PhD, National Defense University

2:00 - 2:25 pm

"EMP Knots Untied — Common Misconceptions Regarding EMP"

George Baker, former DNA EMP Program Director

2:30 - 2:55 pm

"The Cyber Executive Order"

Thomas Goldberg, Lineage Technologies

#### Boardroom, 2:50 - 3:50 pm

"Integrating Science Into Civic Engagement Through University-Community Research Collaborations: Promoting Environmental Health and Well-Being in Agricultural Communities"

Chair: Guillermo De Los Reyes, PhD, *University of Houston*Grady Hanrahan, PhD, Prof. of Analytical Chemistry, *California Lutheran University*Haco Hoang, PhD, Associate Professor of Political Science, *California Lutheran University*Michelle Vargas, Public Relations Specialist

## Mayor Room

2:50 - 3:20 pm

"The Visible Hand: The Managerial Revolution in U.S. Knowledge Production and the Future of Global Competitive Advantage in Science and Technology" Chair: Whitney Shepard, *Policy Studies Organization* Craig Boardman, PhD, Associate Director of the Battelle Center for Science & Technology Policy, *Ohio State University* 

3:20 - 3:50 pm

"The 'Big Data' Initiative and Great Expectations for Shifting the Worldview Paradigm"

Chair: Shawn Schulenberg, PhD, Marshall University Simon Berkovich, PhD, George Washington University

## Library

2:50 - 3:20 pm

"The Future of Sustainability and the Resilience of Food Systems"

Chair: Frank McCluskey, PhD, American Public University System

S. R. Raftery, Advanced Energy Growing

3:20 - 3:50 pm

"The Digital University and the Future of Higher Education"\*

**Chair:** Daniel Benjamin, PhD, *American Public University System*Frank McCluskey, PhD, *American Public University System*Fred Stielow, PhD, *American Public University System* 

#### **Auditorium**

3:00 - 3:25 pm

"The Role of the New FERC Office of Energy Infrastructure Security and Proposed FERC Ruling on Geomagnetic Disturbance"

Ms. Christy Walsh, JD, FERC

"Solid Ground Response" Fred Faxfog, PhD, Emprimus

3:30 — 3:55 pm

"Energy and National Security: Protecting our Ability to Use Electricity"

Hon. R. James Woolsey, *Former Director of U.S. Central Intelligence* 

<sup>\*</sup>This panel is in relation to a new book coming out soon, published by the PSO, "The Idea of the Digital University: Ancient Traditions, Disruptive Technologies and the Battle for the Soul of Higher Education." See the related ad in the program for more information.

SCHEDULE Dupont Summit 2012

### Boardroom, 4:00 - 5:00 pm

"Low Energy Nuclear Reactions: Exciting New Science and Potential Clean Energy"

Chair: David Oppenheimer, *TRL9 Fund*David Nagel, PhD, *George Washington University*Simon Berkovich, PhD, *George Washington University*Charles Garris, PhD, *George Washington University*Lev Bernstein, PhD, *BLL*, *Inc.* 

## Mayor Room

4:00 - 4:30 pm

"High Speed Rail as the Centerpiece of Sustainable Transportation for America"

**Chair**: Shawn Schulenberg, PhD, *Marshall University*Andy Kunz, President & CEO, *US High Speed Rail Association* 

4:30 - 5:00 pm

"Tracking the Technology Revolution: Highlights from the TechCast Project"

Chair: Guillermo Izabal, PricewaterhouseCoopers LLP

William E. Halal, PhD, George Washington University, TechCast LLC

Library, 4:00 - 5:00 pm

"Strengthening Sustainability Program Design: A Checklist

Approach" Chair: Brian Cook, PhD, Virginia Tech

Ed Maibach, PhD, George Mason University

Andrew Pyle, George Mason University

Neil Ransom, George Mason University

Ian Stanford, George Mason University

Neil Stenhouse, George Mason University

#### Auditorium

4:00 - 4:25 pm

"View of Next-gen Local Power Generation and Energy Storage Solutions Coming Next Year (or Two)"

Inventors Challenge Panel (Chuck Manto and inventors/researchers)

4:30 - 4:55 pm

"InfraGard National EMP SIG Wrap-Up"

Director Peggy Maxon, Department of Homeland Security Response by Oliver Hedgepeth, PhD, *AMU/APU*, other responders TBA

## Board Room, 5:10 - 6:00 pm

"The Political Dynamics of Policy Design: The Case of Climate Change Policy in the U.S."

Chair: Rex Kallembach, Kallembach & Associates

Brian J. Cook, PhD, *Virginia Tech* Michael D. Jones, PhD, *Virginia Tech* 

Mayor Room, 5:10 - 6:00 pm

"Elections Over: Whither STEM Innovation"

Chair: Susan Rosenfeld, PhD, FSR Associates

Michael Simpson, PhD, CSC STEM Council Chair, Fellow and

Senior Principal Leader

Library, 5:10 — 6:00 pm

"North Korea's Nuclear Destination and International Security"

**Chair:** Devin Proctor, *Policy Studies Organization*Sunny Lee, PhD, Institute for Korea-US Political Development

#### Auditorium

5:00 - 6:00 pm

**EMP SIG Meeting** - Open to attendees and EMP SIG members. Open discussion on collaboration and outreach across critical infrastructures and communities.

5:00 - 5:05 pm

"The Role of PSO, Academia and InfraGard"

Dr. Paul Rich, Policy Studies Orientation

5:05 - 5:20 pm

"New EMP Threats, Mitigation and Testing Capabilities"

Bill Joyce, Chairman and CEO of Advanced Fusion Systems

5:20 - 5:30 pm

"Role of EMP SIG Advisory and Llaison Panels; EMP SIG Facilitators and Next Steps"

Chuck Manto, EMP SIG Chairman

5:30 - 6:00 pm

Open discussion, Closing

## Evening Session - 8:15 pm

All Dupont Summit attendees are invited to cap the Summit by attending the Philosophical Society of Washington Lecture, sponsored by the PSO.

Speaker: Dr. Robin Hanson, George Mason University

## "Whole Brain Emulation: Envisioning Economies and Societies of Emulated Minds"

The talk will be held at the John Wesley Powell Auditorium, adjacent to the Cosmos Club, 2170 Florida Avenue NW, Washington DC 20008. The 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.



# **DUPONT SUMMIT 2012**

The Policy Studies Organization thanks you for attending the Dupont Summit! **Save the Date** for the Dupont Summit 2013: December 6, 2013.