

Department of Energy and the National Academy of Public Administration Visiting Speaker Program Event

You are cordially invited to attend the upcoming Visiting Speaker Program event scheduled for
Friday, July 24, 2009, from 8:30 a.m. – 5:00 p.m. at the
National Academy of Public Administration
900 7th Street,
Suite 600, NW
Washington, DC

Governance and Regulation: U.S. to Lead or Lag in the 21st Century

<http://hssoutreach.energy.gov/collaboration/upcomingevent.htm>

This event is co-sponsored by the U.S. Department of Energy
and the National Academy of Public Administration

Discussions by panels of experts will cover topics of regulatory policy and its effects on technology development, economic growth, emerging technologies, and high reliability/high performance organizations. There will be adequate time for audience participation.

Speakers include subject matter experts from the following organizations:

- Battelle Ventures
- Duke University
- Federal Aviation Administration
- George Washington University
- Information Technology and Innovation Foundation
- IBM
- Mercatus Center-George Mason University
- National Academies of Science
- National Science Foundation
- SPIE
- U.S. Chamber of Commerce
- U.S. Chemical Safety Board
- Virginia Tech

Space is limited and this event is by invitation only.

If you have any questions or wish to reserve your place at this event, respond via email to:

HSSVisitingSpeakerProgram@hq.doe.gov



HSS Visiting Speaker Program
In Conjunction with the National Academy of Public Administration (NAPA)
Title: Governance and Regulation: U.S. to Lead or Lag in the 21st Century
Friday, July 24, 2009

Location: NAPA, 900 7th Street, N.W., Suite 600
Washington, DC 20001

Morning Session

8:30-9:00 Registration and Coffee

9:00-9:20 Welcome Remarks
Jennifer L. Dorn, President and CEO, National Academy of Public Administration
Glenn S. Podonsky, Chief Health, Safety and Security Officer, U.S. Department of Energy

9:20-10:30 Panel Discussion
Topic: "Governance and Regulation for the 21st Century – Reform not Relief/Increase"
Moderator: **Mr. Thomas H. Stanton, Fellow of the Center for the Study of American Government - Johns Hopkins University and Fellow of the National Academy of Public Administration**

Panel Members:

Dr. Joseph J. Cordes, Professor of Economics, George Washington University
Dr. Gerald W. Brock, Professor of Telecommunication and of Public Policy and Public Administration, Trachtenberg School of Public Policy and Public Administration, George Washington University

10:30-10:45 Break

10:45-12:15 Panel Discussion
Topic: "What is the 21st Century Public-Private Partnership and Technology Transfer Perspective?"
Moderator: **Mr. Johnny G. Barnes, General Manager Technology and Chief Technology Officer, IBM**

Panel Members:

Dr. Robert D. Atkinson, President, Information Technology and Innovation Foundation
Dr. Charles Wessner, Director of the Program on Technology, Innovation and Entrepreneurship, National Academies of Science
Dr. Ralph Taylor-Smith, General Partner, Battelle Ventures L.P.
Dr. Cynthia McIntyre, Senior Vice President, Strategic Operations, Planning and Development, Council on Competitiveness

Working lunch will start at 12:15 p.m.

Afternoon Session

12:30-2:00 Panel Discussion

Topic: “Analysis of U.S. Regulation; Economic Impacts, Export Controls, Effective Policy for U.S. Interests”

Moderator: **Dr. Eugene G. Arthurs, Executive Director, SPIE**

Panel Members:

Dr. Robin Gaster, Vice President for Research, Alliance for Science and Technology
Research In America

Dr. Arti Rai, Duke University

Mr. Sean Heather, Executive Director, Global Regulatory Cooperation,
U.S. Chamber of Commerce

Mr. Larry E. Christensen, Member, Miller & Chevalier

2:00-3:15 Panel Discussion

Topic: “The Next Generation of Regulation for High-Reliability Organizations”

Moderator: **Dr. Anne M. Khademian, Professor, Center for Public Administration and Policy, Alexandria, Virginia Tech**

Panel Members:

Dr. Jerry Ellig, Senior Research Fellow, Mercatus Center at George Mason University

Honorable John Bresland, Chief Executive Officer, U.S. Chemical Safety Board

Mr. Christopher A. Hart, Deputy Director, Air Traffic Safety Oversight Service,
Federal Aviation Administration

Dr. Mihail C. Roco, Senior Advisor for Nanotechnology. National Science Foundation

3:15-3:30 Break

3:30-4:30 **Topic: “Do Current Regulations Thwart an Innovative U.S. Future”**

Open discussion

Moderated by Lena Trudeau, NAPA, and Mari-Josette Campagnone, DOE

4:30-5:00 **Questions and Answers and Program Wrap-Up**

Topic: “The Next Generation of Regulation for High-Reliability Organizations”

<p>Moderator:</p>  <p>Mr. Thomas H. Stanton Fellow of the Center for the Study of American Government - Johns Hopkins University and Fellow of the National Academy of Public Administration</p>	<p>Financial and Legal Policy Consultant and Author , Washington DC attorney.</p> <p>Research specialist regarding the capacity of public institutions to deliver services effectively, the design and administration of federal programs, especially with respect to credit and financial institutions.</p> <p>Author of: Meeting the Challenge of 9/11: Blueprints for Effective Government, ed., M.E. Sharpe, 2006; Making Government Manageable: Executive Organization and Management in the Twenty-First Century, ed. With Benjamin Ginsberg, John Hopkins University Press, 2004; Government-Sponsored Enterprises: Mercantilist Companies in the Modern World. AEI Press, 2002; A State of Risk: Will Government-Sponsored Enterprises Be the Next Financial Crisis? 1991.</p>
<p>Panel Members:</p>	
 <p>Dr. Joseph J. Cordes Professor of Economics, George Washington University</p>	<p>Joseph Cordes joined the Department of Economics in 1975 and became Professor of Economics in 1985. He received the M.S. and Ph.D. in Economics from The University of Wisconsin, Madison in 1977. From 1989 to 1991, Professor Cordes served as Associate Dean for Faculty Affairs and Programs in the Columbian School of Arts and Sciences, and as Chair of the Department of Economics from 1991 to 1997. He currently serves as the Director of the Ph.D. Program in Public Policy, and Advisor in the Policy Analysis and Research Track of the Master of Public Policy Program . Professor Cordes has also held appointments while on leave from the University as a Brookings Economic Policy Fellow in the Office of Tax Analysis, U.S. Department of the Treasury (1980-81), Financial Economist, U.S. Department of the Treasury (1984), Deputy Assistant Director for Tax Analysis, Congressional Budget Office, 1989-991, and Visiting Fellow, The Urban Institute (1998-1999). Prof. Cordes has co-edited two books, and has authored or co-authored over fifty articles and chapters in books on taxation and tax policy, economic evaluation of public expenditure programs, regulatory policy, technology policy, and the economics the nonprofit sector. A significant part of his current research focuses on the economic behavior of nonprofit organizations, and evaluating public programs intended to reduce economic risks from flood and storm damage.</p>
<p>(Photo pending)</p> <p>Dr. Gerald W. Brock</p> <p>Professor of Telecommunication and of Public Policy and Public Administration, The Trachtenberg School of Public Policy and Public Administration, George Washington University</p>	<p>Prior to joining the GW faculty in 1990, he served as Chief of the FCC Common Carrier Bureau from 1987-89. His research focuses on telecommunication policy, including the interaction of regulatory and other policy decisions with economic efficiency and technological progress. His current research examines the relationship between the regulated voice communication sector and the unregulated data communication sector, looking for insight regarding factors that facilitate technological progress and flexibility in economic institutions. He teaches courses in telecommunication policy, the economics of the telecommunication industry, and economics for public policy. He is the author of four books, of which the most recent is The Second Information Revolution (Harvard University Press, 2003).</p>

Topic: “What is the 21st Century Public-Private Partnership and Technology Transfer Perspective?”

<p>Moderator:</p> <p><u>Mr. Johnny G. Barnes,</u> General Manager Technology and Chief Technology Officer, IBM</p>	<p>Mr. Barnes has over 30 years of experience with IBM, holding a variety of product, solution development, staff, system architecture, management and executive positions. Mr. Barnes has been appointed to several IBM corporate staff positions, which have included a number of critical IBM product and strategy task forces responsible for establishing the future technical and business direction for IBM. Mr. Barnes has also worked to re-engineer IBM's internal hardware development, global computing and telephony environments and grow IBM's Public Sector transformation services business. Mr. Barnes has an overall perspective of the computer industry and its applicability to business segments, as well as IBM's strategic plans to meet the distributed computing and e-business on demand market to satisfy future critical business requirements. Currently, as General Manager Technology and Corporate Technology Officer, Mr. Barnes has responsibility for IBM's WW Public Sector Technical and Solution Strategy and expanding IBM's Public Sector transformation service business.</p> <p>Mr. Barnes holds a B.S. in Electrical Engineering from the University of Houston and attended graduate school at the University of Texas concentrating on software engineering.</p>
<p>Panel Members:</p>	
 <p><u>Dr. Robert D. Atkinson,</u> President, Information Technology and Innovation Foundation</p>	<p>Robert Atkinson is President of the Information Technology and Innovation Foundation (ITIF). He has an extensive background in technology policy and has conducted ground-breaking research projects on technology and innovation. Before coming to ITIF Dr. Atkinson was Vice President of the Progressive Policy Institute and director of PPI's Technology & New Economy Project. Previously Dr. Atkinson served as Executive Director of the Rhode Island Economic Policy Council, a public private partnership including as members the Governor, legislative leaders, and corporate and labor leaders. Prior to that he was Project Director at the former Congressional Office of Technology Assessment. While at OTA, he directed “The Technological Reshaping of Metropolitan America,” a seminal report examining the impact of the information technology revolution on America’s urban areas. He is also author of the book, The Past and Future of America’s Economy: Long Waves of Innovation that Power Cycles of Growth (Edward Elgar, 2005). He received his Ph.D. in City and Regional Planning from the University of North Carolina at Chapel Hill in 1989.</p>
 <p><u>Dr. Cynthia McIntyre,</u> Senior Vice President, Strategic Operations, Planning and Development, Council on Competitiveness</p>	<p>Cynthia McIntyre, Ph.D., is a senior vice president at the Council on Competitiveness. She oversees strategic operations, planning and development. McIntyre is also leading the Council's High Performance Computing Initiative</p> <p>Prior to joining the Council, she served as chief of staff to the president, associate vice president for policy and planning at Rensselaer Polytechnic Institute, the nation’s oldest technological research university. Her leadership and oversight of intellectual property, technology transfer and new ventures guided this portfolio to become a successful enterprise for Rensselaer. Additionally, McIntyre co-led the program and architectural design and development of a new research and performance platform, EMPAC, at Rensselaer. She managed the institutional performance planning process, monitored campus-wide progress on the university's strategic plan, and managed the budget for the Office of the President.</p>

	<p>Dr. McIntyre is a theoretical condensed matter physicist and holds a Bachelor of Science in physics from the University of Texas at Austin, a Master of Arts in physics from Brandeis University and a doctorate in physics from the Massachusetts Institute of Technology.</p>
 <p><u>Dr. Ralph E. Taylor-Smith,</u> General Partner - Battelle Ventures L.P. and Innovation Valley Partners L.P.</p>	<p>Ralph is a General Partner of Battelle Ventures L.P. and Innovation Valley Partners L.P. and he manages the Washington DC regional office located at Battelle's Crystal City site. He covers all aspects of the venture business, including deal sourcing, due-diligence, deal negotiation and transaction closing, Board of Director duties, and start-up company development. Ralph has led or co-led various venture investments for the firm including BioVigilant, Hi-G-Tek, Nistica, Rajant, RemoteReality, Sypherlink, and he serves on the Board of Directors for each of these Companies. Prior to entering the venture capital industry, Ralph gained significant experience in technology R&D, business development and investment banking. He worked previously as a Senior Research Scientist at Bell Labs, in Business Development at Lucent Technologies, and as an Investment Banker on Wall Street at GoldmanSachs and JPMorgan.</p> <p>Ralph gained his academic training from Princeton University and the Massachusetts Institute of Technology (MIT), receiving a PhD in Engineering (Chemical & Biomolecular Engineering focus) and an MBA in Finance (Corporate Finance & Strategic Planning focus). He holds twelve patents issued to Bell Labs, OFS Optics and Agere Systems for innovations in semiconductor microelectronic devices, optical-fiber & photonics, fuel cells, flat panel displays, and nanotechnology systems.</p>
 <p><u>Dr. Charles W. Wessner,</u> National Academy Scholar, Director of the Program on Technology, Innovation, and Entrepreneurship, National Academies of Science</p>	<p>Dr. Charles Wessner is a National Academy Scholar and Director of the Program on Technology, Innovation, and Entrepreneurship. He is recognized nationally and internationally for his expertise on innovation policy, including public-private partnerships, entrepreneurship, early-stage financing for new firms, and the special needs and benefits of high-technology industry. He testifies to the U.S. Congress and major national commissions, advises agencies of the U.S. government and international organizations, and lectures at major universities in the U. S. and abroad. Reflecting the strong global interest in innovation, he is frequently asked to address issues of shared policy interest with foreign governments, universities, and research institutes, often briefing government ministers and senior officials. He has a strong commitment to international cooperation, reflected in his work with a wide variety of countries around the world.</p> <p>Currently, he directs a series of studies centered on government measures to encourage entrepreneurship and support the development of new technologies and the cooperation between industry, universities, laboratories, and government to capitalize on a nation's investment in research. Foremost among these is a congressionally mandated study of the Small Business Innovation Research (SBIR) Program, reviewing the operation and achievements of this \$2.3 billion award program for small companies and start-ups. He is also directing a major study on best practice in global innovation programs, entitled Comparative Innovation Policy: Best Practice for the 21st Century.</p>

Topic: “Analysis of U.S. Regulation – Economic Impacts, Export Controls, and Effective Policy for U.S. Interests”

Moderator:	
	<p>Eugene G. Arthurs joined SPIE staff as Executive Director in November 1999. Prior to this he was President and CEO of Cleveland Crystals Inc. (CCI) He joined CCI, a closely held company, in 1997 and after reorganizing the company he marketed and sold it at the end of 1998. He joined the Board of Gooch & Housego, PLC (G&H), the acquiring company, after the sale and oversaw CCI and Optronics Laboratories Inc., G&H's U.S. subsidiaries.</p> <p>Eugene received his B.Sc. (1st class honours) in 1972 in Physics, and his Ph.D. in 1975 in Applied Physics from Queens University Belfast, N.Ireland. His Ph.D. research was in generation and measurement of tunable ultrashort (1-2 ps in those days) pulses. In 1973, he taught the M.Sc. class in optoelectronics at Queens while continuing his research.</p> <p>An SPIE member from 1972 or so, Eugene has been active in the American Society for Lasers in Medicine of which he was a founding member, the Council for Optical Radiation Measurement, and the OSA at a local and national level. He is currently a member of SPIE, OSA, CORM, CESSE, ASAE and the Advisory Board to the Photochemical Research Center at Bowling Green State University. A former Congressional District Organizer, he remains active in Bread for the World, an educational and public policy organization working on the basic causes of world hunger.</p>
<p>Dr. Eugene G. Arthurs, Executive Director, SPIE</p>	
Panel Members:	
	<p>Dr. Robin Gaster is President of Innovation Ecologies Inc. He is also Vice President for Research at the Alliance for Science and Technology in America (ASTRA) and Senior Fellow (nonresident) at the Innovation and Information Technology Foundation (ITIF). Dr.Gaster founded Innovation Ecologies Inc. (IEI) in 2005. IEI has focused on the need to measure and understand the ecologies of economic innovation in the US and abroad. With funding from NIST and support from the National Academy, IEI has developed the Regional Innovation Index, a web-based tool for comparing the innovation capacity of US regions. He is also founder of the upcoming Innovation Policy Forum, a series of meetings to be held in conjunction with ITIF. Since 2003, Dr.Gaster has been lead researcher on the National Academy of Sciences study of Small Business Innovation Grants. (http://www7.nationalacademies.org/sbir/) Dr.Gaster has authored many reports and publications covering a wide arrange of topics broadly related to technology, trade, and e-commerce, including a book on trans-Atlantic telecommunications issues, Bit by Bit. His work has been published in Foreign Policy as well as The Atlantic. Dr. Gaster received a Ph.D from U.C.Berkeley 1985, an M.A. from the University of Kent, and a B.A. from Oxford University.</p>
<p>Dr. Robin Gaster, Vice President for Research, Alliance for Science and Technology Research In America</p>	
	<p>Sean Heather is executive director for Global Regulatory Cooperation, an initiative of the U.S. Chamber of Commerce that seeks to address regulatory issues that act as barriers to international trade. A member of the Chamber's staff for the past ten years, Mr. Heather previously led a project to identify emerging public policy issues of concern to the business community and served as part of the Chamber's Congressional Affairs division working on issues range of public policy issues.</p> <p>Mr. Heather holds an undergraduate degree and an MBA from the University of Illinois.</p>
<p>Mr. Sean Heather, Executive Director, Global Regulatory Cooperation, U.S. Chamber of Commerce</p>	



Dr. Arti K. Rai, Elvin R. Latty
Professor of Law, Duke
University

Arti Rai is an authority in patent law, administrative law, law and the biopharmaceutical industry, and health care regulation. Her current research on innovation policy in areas such as green technology, drug development, and software is funded by NIH, the Kauffman Foundation, and Chatham House. She has published widely in both peer-reviewed journals and law reviews, including Nature Biotechnology, PLoS Biology, PLoS Medicine, the Annals of Internal Medicine, and the Columbia, Georgetown, and Northwestern law reviews. She is currently editing a book on intellectual property rights in biotechnology and has also co-authored a casebook on law and the mental health system.

Topic: “The Next Generation of Regulation for High-Reliability Organizations”

<p>Moderator:</p>  <p>Dr. Anne M. Khademian, Professor, Center for Public Administration and Policy, Alexandria, Virginia Tech</p>	<p>Research specialties in financial regulation, inclusive management, and organizations involved in homeland security.</p> <p>Author of : Working With Culture: How the Job Gets Done in Public Programs, CQ Press, 2002; Checking on Banks: Autonomy and Accountability in Three Federal Agencies, Brookings, 1996; and The SEC and Capital Market Regulation: The Politics of Expertise, Pittsburgh, 1992</p>
<p>Panel Members:</p>	
 <p>Honorable John S. Bresland, Chief Executive Officer, U.S. Chemical Safety Board</p>	<p>John S. Bresland was appointed by President George W. Bush as chairman and chief executive officer of the U.S. Chemical Safety Board in March of 2008.</p> <p>Mr. Bresland previously served as a CSB board member from August 2002 until August 2007. Before joining the Board he was President of Environmental and Safety Risk Assessment LLC, a chemical process safety consulting company based in Morristown, New Jersey. In addition he was a Staff Consultant to the Center for Chemical Process Safety of the American Institute of Chemical Engineers, working as a project manager on two committees writing books on dust explosions and the management of reactive chemical hazards.</p> <p>Mr. Bresland graduated in Chemistry from Londonderry Technical College, Northern Ireland and from Salford University, England. He is a member of the American Institute of Chemical Engineers, the American Chemical Society and a Fellow of the Royal Society of Chemistry.</p>
 <p>Dr. Jerry Ellig, Senior Research Fellow, Mercatus Center, George Mason University</p>	<p>Dr. Jerry Ellig is a senior research fellow at the Mercatus Center at George Mason University, where he has worked since 1996. Between August 2001 and August 2003, he served as deputy director and acting director of the Office of Policy Planning at the Federal Trade Commission. Dr. Ellig has also served as a senior economist for the Joint Economic Committee of the U.S. Congress and as an assistant professor of economics at George Mason University.</p> <p>Dr. Ellig earned his PhD and MA in economics from George Mason University in Fairfax, VA, and his BA in economics from Xavier University in Cincinnati, OH.</p>



Christopher A. Hart,
Deputy Director, Air Traffic
Safety Oversight, Federal
Aviation Administration

Christopher A. Hart is the Deputy Director for Air Traffic Safety Oversight at the Federal Aviation Administration. Until recently he was the FAA Assistant Administrator for the Office of System Safety. Reporting directly to the FAA Administrator, the Office of System Safety provided data, analytical tools and processes, safety risk assessments, and other assistance to support numerous FAA and worldwide aviation community safety programs; spearheaded industry-wide safety activities such as the Global Aviation Information Network (GAIN); and helped to identify key safety issues and emerging trends affecting aviation safety.

Mr. Hart has a law degree from Harvard Law School and a Master's Degree (magna cum laude) in Aerospace Engineering from Princeton University. He is a member of the District of Columbia Bar and the Lawyer-Pilots Bar Association, and he is a pilot with commercial, multi-engine, and instrument ratings.



Dr. Mihail C. Roco,
Senior Advisor for
Nanotechnology, National
Science Foundation

Dr. Roco is the founding chair of the National Science and Technology Council's subcommittee on Nanoscale Science, Engineering and Technology (NSET), and is the Senior Advisor for Nanotechnology at the National Science Foundation. He also coordinated the programs on academic liaison with industry (GOALI). Prior to joining National Science Foundation, he was Professor of Mechanical Engineering at the University of Kentucky (1981-1995), and held visiting professorships at the California Institute of Technology (1988-89), Johns Hopkins University (1993-1995), Tohoku University (1989), and Delft University of Technology (1997-98).

Dr. Roco is credited with thirteen inventions, contributed over two hundred articles and sixteen books including "Particulate Two-phase Flow" (Butterworth, 1993), "Nanostructure Science and Technology" (1999), "Societal Implications of Nanoscience and Nanotechnology" (2001 and 2006), and more recently "Managing Nano-Bio-Info-Cognition Innovations" (2007) and "Mapping Nanotechnology Knowledge and Innovation: Global and Longitudinal Patent and Literature Analysis" (2008).

He initiated the first Federal Government program with focused on nanoscale science and engineering (on Synthesis and Processing of Nanoparticles) at NSF in 1991. He formally proposed NNI in a presentation at White House/OSTP, Committee on Technology, on March 11, 1999. He is a key architect of the National Nanotechnology Initiative, and coordinated the preparation of the U.S. National Science and Technology Council reports on "Nanotechnology Research Directions" (NSTC, 1999) and "National Nanotechnology Initiative" (NSTC, 2000).