

Cyber Statecraft: *Addressing Strategic Cyber Instability*

Wednesday, September 7, 2011
Council on Foreign Relations
1777 F Street, NW
Washington, DC 20006

Workshop Agenda

- 8:30 – 9:00 a.m. *Registration and Breakfast*
- 9:00 – 9:30 a.m. *Welcome and Introduction*
- 9:30 – 10:30 a.m. **Understanding Strategic Cyber Instability: Causes and Concerns**
Panel Chair: James Mulvenon, Cyber Conflict Studies Association
Panelists: Chris Demchak, Naval War College
Barry Pavel, Atlantic Council
- 10:45 – 11:45 a.m. **International Law and Global Cybersecurity Cooperation:
Establishing Norms and Regimes**
Panel Chair: Jody Westby, Global Cyber Risk, LLC
Panelists: Martha Finnemore, George Washington University
Catherine Lotrionte, Georgetown University
- 12:00 – 1:00 p.m. *Lunch, with keynote address by Paul Twomey*
- 1:15 – 2:15 p.m. **Making Cyberspace Healthy and Clean:
Alternative Models for Achieving Stability**
Panel Chair: Jason Healey, Cyber Conflict Studies Association
Panelists: Micah Zenko, Council on Foreign Relations
Scott Charney, Microsoft Corporation
- 2:30 – 3:30 p.m. **Reducing Risks of Cyber Conflicts: Lessons and Setting an Agenda**
Panel Chair: Greg Rattray, Cyber Conflict Studies Association
Panelists: Adam Segal, Council on Foreign Relations
Christopher Painter, U.S. Department of State
- 3:30 – 4:00 p.m. *Closing Remarks*
- 4:00 – 5:00 p.m. *Happy Hour Reception*

Panelist Biographies

Panel I— Understanding Strategic Cyber Instability: Causes and Concerns

JAMES MULVENON

James Mulvenon is vice president of Defense Group Inc's Intelligence Division, as well as cofounder and director of its Center for Intelligence Research and Analysis, where he has recruited and trained a team of nearly forty Chinese, Arabic, Farsi, Dari, Pashto, Urdu, Russian, and Korean linguist analysts performing cutting-edge contract research and analysis for the U.S. intelligence community. A Chinese linguist and a specialist on the Chinese military, his current research focuses on Chinese cyber issues, and the military and civilian implications of the information revolution in China. Dr. Mulvenon is also president of the Cyber Conflict Studies Association, which is dedicated to fostering the development of the field of cyber conflict studies. Dr. Mulvenon received his Ph.D. in political science from the University of California, Los Angeles.

BARRY PAVEL

Barry Pavel is director of the International Security Program at the Atlantic Council, focusing on emerging security challenges, defense strategies and capabilities, and key European and global defense issues. Prior to joining the Atlantic Council, Mr. Pavel was a career member of the Senior Executive Service in the Office of the Under Secretary of Defense for Policy for almost eighteen years. From October 2008 through July 2010, he served as the special assistant to the President and senior director for defense policy and strategy on the National Security Council staff. From October 1993 through November 2006, Mr. Pavel led or contributed to a broad range of defense strategy and planning initiatives for both the Clinton and George W. Bush Administrations. Mr. Pavel holds an M.A. in Security Studies and an M.P.A. in International Relations from Princeton University, and a B.A. in Applied Mathematics and Economics from Brown University.

CHRIS DEMCHAK

Dr. Chris Demchak is an associate professor at the U.S. Naval War College. She has published numerous articles on societal security difficulties with large-scale information systems to include cyber war and cyber privacy, security institutions, and new military models. A former U.S. Army Reserve officer, Dr. Demchak has recently coedited and contributed to an edited book entitled *Designing Resilience* and has a forthcoming book, *Wars of Disruption and Resilience: Cybered Conflict, Power, and National Security Conflicts*. She has taught undergraduate and graduate level courses on comparative security and modernized organizations, the institutional history of war and the state, the emerging global information systems, and the worldwide diffusion of defense technologies. Dr. Demchak received her Ph.D. from Berkeley in political science. She also holds two masters degrees in economic development (Princeton) and energy engineering (Berkeley).

**Panel II — International Law and Global Cybersecurity Cooperation:
Establishing Norms and Regimes**

JODY WESTBY

Drawing upon a unique combination of more than twenty years of technical, legal, policy, and business experience, Ms. Westby provides consulting and legal services to public and private sector clients in the areas of privacy, security, cybercrime, breach management, forensic investigations, and IT governance. She also serves as adjunct distinguished fellow for Carnegie Mellon CyLab. Ms. Westby serves as chair of the ABA's Privacy and Computer Crime Committee, cochairs the World Federation of Scientists' Permanent Monitoring Panel on Information Security, and is a member of the ITU Secretary-General's High Level Experts Group on Cybersecurity. Ms. Westby led the development of the *ITU Toolkit on Cybercrime Legislation* and is an editor and coauthor of the WFS-ITU publication, *The Quest for Cyber Peace*. She received her J.D. from Georgetown University and her B.A. from the University of Tulsa.

MARTHA FINNEMORE

Dr. Martha Finnemore is a professor of Political Science and International Affairs at the George Washington University. Professor Finnemore's most recent book, *Rules for the World: International Organizations in Global Politics*, (coauthored with Michael Barnett) investigates the power and pathologies of international bureaucracy, and won the International Studies Association's award for best book in 2006. She has also written *National Interests in International Society* and *The Purpose of Intervention*. Her articles have appeared in *International Organization*, *Review of International Studies*, and elsewhere. Professor Finnemore teaches courses on international organizations, organization theory, and ethics in world politics, and her research focuses on global governance and international organizations. She received her B.A. from Harvard University, her M.A. from the University of Sydney, and her Ph.D. from Stanford University.

CATHERINE LOTRIONTE

Dr. Catherine Lotrionte is the executive director of the Institute for Law, Science & Global Security, visiting professor of Government, and the director of the CyberProject at Georgetown University. From 2002 to 2006 she served as counsel to the President's Foreign Intelligence Advisory Board. In 2002, she served as a legal counsel for the Joint Inquiry Committee of the Senate Select Committee on Intelligence. Previously, Professor Lotrionte was Assistant General Counsel with the Office of General Counsel at the Central Intelligence Agency. At Georgetown she teaches courses on intelligence law, international law and foreign policy, and directs cyber and nonproliferation research projects. Professor Lotrionte is the author of numerous publications, including two forthcoming books, *Cyber Policy: An Instrument of International Relations, Intelligence and National Power* and *U.S. National Security Law in the Post-Cold War Era*. She earned her Ph.D from Georgetown University and her J.D. from New York University.

***Panel III — Making Cyberspace Healthy and Clean:
Alternative Models for Achieving Stability***

JASON HEALEY

Jason Healey is the director of the Cyber Statecraft Initiative of the Atlantic Council, focusing on international cooperation, competition, and conflict in cyberspace. He also is a board member of the Cyber Conflict Studies Association, lecturer in cyber policy at Georgetown University, and a senior consultant at Delta Risk. Mr. Healey's previous experience ranges from serving as an Air Force intelligence officer, Goldman Sachs vice president, and director at the White House. Starting his career in the United States Air Force, Mr. Healey had intelligence and information warfare tours at the National Security Agency and Headquarters Air Force at the Pentagon, and is a plankholder of the Joint Task Force – Computer Network Defense, the world's first joint cyber warfighting unit. He has degrees from the United States Air Force Academy (Political Science), Johns Hopkins University (Liberal Arts) and James Madison University (Information Security).

MICAH ZENKO

Micah Zenko is a fellow for conflict prevention in the Center for Preventive Action at the Council on Foreign Relations. Previously, he worked at Harvard University's Kennedy School of Government in a number of research positions, and in Washington, DC, at the Brookings Institution, Congressional Research Service, and State Department's Office of Policy Planning. Dr. Zenko has published on a range of national security issues, including articles in the *Journal of Strategic Studies*, *Parameters*, *Defense and Security Analysis*, and *Annals of the American Academy of Political and Social Science*. He is the author of two Council Special Reports, "Enhancing U.S. Preventive Action," with Paul Stares, and "Toward Deeper Reductions in U.S. and Russian Nuclear Weapons." His book, *Between Threats and War: U.S. Discrete Military Operations in the Post-Cold War World*, was published in 2010. Dr. Zenko received a Ph.D. in political science from Brandeis University.

SCOTT CHARNEY

Scott Charney serves as Microsoft's Corporate Vice President for Trustworthy Computing, Engineering Excellence, and Environmental Sustainability. Trustworthy Computing is Microsoft's effort to help ensure secure, private, and reliable computing experiences. Before joining Microsoft in 2002, Charney was a principal for the professional services organization at Pricewaterhouse Coopers, leading the Cybercrime Prevention and Response Practice. Previously, he served as chief of the Computer Crime and Intellectual Property Section in the Criminal Division of the U.S. Department of Justice. Mr. Charney also chaired the G8 Subgroup on High-Tech Crime and served as vice chair and head of the U.S. delegation to the Ad Hoc Group of Experts on Global Cryptography Policy for the OECD. Mr. Charney holds a J.D. from Syracuse University and bachelor degrees in History and English from the State University of New York in Binghamton.

Panel IV — Reducing Risks of Cyber Conflicts: Lessons and Setting an Agenda

GREG RATTRAY

Greg Rattray is the president of the Cyber Conflict Studies Association and a partner at Delta Risk LLC, establishing risk management and cybersecurity strategies for government and private sector clients. He also provides cybersecurity consulting to the financial services industry as senior advisor at the Financial Services Roundtable/BITS. Dr. Rattray served as chief security advisor for ICANN, developing approaches for enhancing global Internet security. Previously, he served as an U.S. Air Force officer and his assignments included serving as the director for Cyber Security on the National Security Council staff and commanding the Operations Group of the Air Force Information Warfare Center. Dr. Rattray has authored numerous books and articles, including *Strategic Warfare in Cyberspace*. He received his Ph.D. from Tufts University, his M.P.P. from Harvard University, and his B.S. from U.S. Air Force Academy.

ADAM SEGAL

Adam Segal is the Ira A. Lipman senior fellow for counterterrorism and national security studies at the Council on Foreign Relations. An expert on security issues, technology development, and Chinese domestic and foreign policy, Dr. Segal currently leads study groups on cybersecurity and cyber conflict as well as Asian innovation and technological entrepreneurship. Before coming to CFR, Dr. Segal was an arms control analyst for the China Project at the Union of Concerned Scientists. There, he wrote about missile defense, nuclear weapons, and Asian security issues. He has taught at Vassar College and Columbia University. Dr. Segal is the author of *Digital Dragon: High-Technology Enterprises*, as well as several articles and book chapters on Chinese technology policy. His recent book *Advantage: How American Innovation Can Overcome the Asian Challenge* looks at the technological rise of Asia. Dr. Segal has a B.A. and Ph.D. in Government from Cornell University, and an M.A. in International Relations from Tufts University.

CHRISTOPHER PAINTER

Mr. Painter has been on the vanguard of cyber issues for twenty years. Most recently, Mr. Painter served in the White House as senior director for cybersecurity policy in the National Security Staff. During his two years at the White House, Mr. Painter was a senior member of the team that conducted the President's Cyberspace Policy Review and subsequently served as acting cybersecurity coordinator. He coordinated the development of the international strategy for cyberspace and chaired high-level interagency groups devoted to international and cyber issues. Mr. Painter began his federal career as an assistant U.S. attorney where he led some of the most high profile and significant cybercrime prosecutions in the country. He subsequently helped lead the Computer Crime and Intellectual Property Section in the U.S. Department of Justice. He has represented the United States in numerous international fora, including chairing the G8 High Tech Crime Subgroup since 2002. He is a graduate of Stanford Law School and Cornell University.