



SPEAKER BIOGRAPHIES



M. Elaine Bunn

Elaine Bunn is a senior fellow at National Defense University's Institute for National Strategic Studies, where she is director of the Future Strategic Concepts Program. Before joining INSS in 2000, she was a senior executive in the Office of the Secretary of Defense, where she worked for twenty years in international security policy. She served as Principal Director, Nuclear Forces and Missile Defense Policy, from 1993-98. During that time, she was executive director of the 1994 Nuclear Posture Review. She was a visiting fellow at the RAND Corporation, 1998-2000; from February through June 2001, she co-chaired a panel for the Secretary of Defense, framing issues for the 2001 Nuclear Posture Review. A 1988 graduate of the National War College, she received an M.A. in International Security from Johns Hopkins School of Advanced International Studies and a B.A. from the University of Georgia, and was a Fulbright scholar at l'Université de Neuchâtel, Switzerland. Her publications include a number of articles and book chapters on strategic planning, nuclear policy, missile defense, preemption and deterrence.

CAPT Daryl Caudle

CAPT Daryl Caudle, a native of Winston-Salem, North Carolina graduated from North Carolina State University (magna cum laude) in 1985, where he majored in Chemical Engineering. CAPT Caudle also holds Masters degrees in Physics from the Naval Postgraduate School and in Engineering Management from Old Dominion University. CAPT Caudle is a licensed Professional Engineer in the Commonwealth of Virginia. CAPT Caudle's most recent assignments include Commanding Officer tours onboard the fast-attack submarines USS JEFFERSON CITY, USS TOPEKA, and USS HELENA. CAPT Caudle transferred to the Joint Staff in June 2007 from his position as the Deputy Commander, Submarine Squadron 11 in San Diego. CAPT Caudle is currently assigned to the Joint Staff (J5), Strategic Plans and Policy Directorate where he serves as the Cyberspace Division Chief.

Dr. Thomas Donahue

Dr. Donahue joined the CIA as an analyst in 1985 after completing a Ph.D. at MIT in electrical engineering.

Mr. Mark Gerencser

Mark J. Gerencser, Senior Vice President, served as the Managing Director of Booz Allen's Global Government Business, leading the expansion of Public Sector business within the US and abroad. Previously, Mr. Gerencser led the Firm's National Security business and created its Homeland Security Practice. He also started the commercial Enterprise Resilience Practice serving clients in Consumer, Financial Services, Energy and Healthcare industries. He created the United States National Security Scholarship Program which



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works with local Universities and the Federal Government to recruit new talent into the National Security Community. He was nominated by the President and confirmed by the Senate Armed Services Committee as a member of the National Security Education Board, chaired by the Secretary of Defense. He is a member of Business Executives for National Security (BENS) and serves on the Board of Directors. He is a member of the University of Maryland's Board of Visitors and the Advisory Board for its Strategic Security Laboratory. Consulting Magazine named him as one of the top 25 most influential consultants in 2007. Mr. Gerencser has a BS in Electrical Engineering from Rutgers University and an MS in Technology Management from the University of Maryland.

Hon. John Grimes

Mr. Grimes was nominated by President Bush on June 17, 2005 and sworn in as the Assistant Secretary of Defense for Networks and Information Integration (ASD NII) / Department of Defense Chief Information Officer (CIO) on November 14, 2005. Mr. Grimes has extensive technical and policy experience in telecommunications, information systems and the command and control fields. His public service includes five years on the White House National Security Council Staff as Director for National Security Telecommunications Policy, Director of Defense Command, Control and Communications Programs, and Senior Director White House Situation Support Staff from 1984 to 1990. Mr. Grimes served as Deputy Assistant Secretary of Defense for Defense-wide Command, Control and Communications and was the Deputy Assistant Secretary of Defense for Counterintelligence and Security Countermeasures from 1990 to 1994. As a member of the DoD senior executive service (SES), he held senior technical and staff positions with the National Communications System, Defense Communications Agency (predecessor to DISA), and the U.S. Army Communications Command following his military service in the U.S. Air Force. Mr. Grimes joined Raytheon Company in 1994 where he served as Vice President of Intelligence and Information Systems, Washington Operations, prior to retiring in November 2005. Mr. Grimes has served on four Defense Science Board (DSB) Task Forces. He was a member of the Industry Executive Subcommittee of the President's National Security Telecommunications Advisory Committee (NSTAC). A native of Frederick, Maryland, Mr. Grimes is a graduate of the University of Arizona and also holds a Master of Science Degree from Shippensburg University in Pennsylvania. He is a graduate of the U.S. Army War College, Carlisle Barracks, Pennsylvania; the Federal Executive Institute, Charlottesville, Virginia; and Harvard University's National and International Security Policy Program. He is the recipient of the American Institute of Aeronautics and Astronautics' (AIAA) Command, Control, Communications and Intelligence (C3I) Award among other public, military and Federal civil service awards to include two Presidential Rank awards.



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Mr. Mark Hall

Mr. Mark Hall was appointed the Director, Information Assurance (IA) Policy and Strategy in July 2007. In this capacity, he is responsible for ensuring a secure DOD network architecture is designed and maintained through a variety of IA programs and initiatives supported by appropriate enterprise security policies. Mr. Hall is also the Director of the International Information Assurance Program (IIAP) for the United States Department of Defense (DoD), a position he has occupied since August 2005. Mr. Hall also serves as the DOD Co-chair to the National Cyber Response Coordination Group (NCRCG) and represents DOD interests in the principal inter-agency forum to discuss cyber security issues and respond to a cyber event of national significance. After graduating from the University of Maryland with a BA degree in International Relations he entered a 3-year DoD developmental program for information security. He was later assigned to the White House Communications Agency to provide information security (INFOSEC) support to Presidential communications. Subsequent to that assignment, Mr. Hall became a program manager responsible for developing and implementing anti-tamper technologies for integrated circuits; was selected to become an initial member and senior analyst for a new Information Operations group; designed and implemented a 24x7 Computer Network Defense watch desk and analytical cell, managed a division responsible for time-sensitive reporting and response, and was designated the Executive Assistant to the Chief of a Defensive Information Operations group. In addition to his degree from the University of Maryland, Mr. Hall received a Graduate Certificate from Johns Hopkins University in Telecommunications and Information Systems in 1998. Mr. Hall resides in Columbia, MD with his wife Yvonne and has three daughters.

Hon. Franklin D. Kramer

The Honorable Franklin Kramer was a Distinguished Research Fellow at the Center for Technology and National Security Policy. Mr Kramer was Assistant Secretary of Defense for International Security Affairs from March 1996 to February 2001, and Deputy Assistant Secretary for European and NATO Affairs from January 1996 to March 1996. He has also served as the Principal Deputy Assistant Secretary of Defense for International Security Affairs from 1979 to 1981, and as Special Assistant to the Assistant Secretary of Defense for International Security Affairs from 1977 to 1979. Mr. Kramer is the chairman of the board of the World Affairs Council of Washington, D.C.; chairman of the Committee on Asian and Global Security of the Atlantic Council and on the Executive Committee of the board; a Capstone Professor at George Washington University Elliott School of International Affairs; and on the board of directors and board of advisers of other organizations. Mr. Kramer has been a partner with the Washington, D.C. law firm of Shea and Gardner. Mr. Kramer received a B.A. cum laude from Yale University in 1967 and a J.D. magna cum laude from Harvard Law School in 1971.



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Dr. Dan Kuehl

Dr. Kuehl is the Director of the Information Operations Concentration, a specialized curriculum on national security in the information age offered to selected senior students at the National Defense University. His courses concentrate on such issues as the information component of national power, information operations, and public diplomacy. He retired as a Lieutenant Colonel in 1994 after nearly 22 years active duty in the USAF. He holds a PhD in History from Duke University, where his dissertation focused on the Air Force's employment of electronic warfare in the decade after WW II. His publications include a wide range of academic and professional journals, and he has contributed to several books on airpower and information warfare, including the Cyberwar series from AFCEA and the latest edition of Information Operations by Potomac Press. He is on the editorial boards of Joint Force Quarterly and the Journal of Information Warfare, is a member of the Public Diplomacy Council and the Cyber Conflict Studies Association, was a member of the Defense Science Board team that wrote the 2004 report on Strategic Communication, and is contributing to a major DOD study on cyberspace and cyberpower. He lectures internationally on the subject of information warfare, and his current research focuses on the relationship between the information age and national security.

Mr. Robert Lentz

Mr. Lentz is the Deputy Assistant Secretary of Defense for Information and Identity Assurance (I&IA) in the Office of the Assistant Secretary of Defense, Networks and Information Integration/Chief Information Officer. He is the Chief Information Assurance Officer (CIAO) for the Department of Defense (DoD) and oversees the Defense-wide IA Program, which plans, monitors, coordinates, and integrates IA activities across DoD. He also reports to the Deputy Undersecretary for Security and Counter-Intelligence and is a member of the Information Operations (IO) Steering Council. Mr. Lentz has over 26 years of experience with the National Security Agency (NSA) in the areas of financial management and technical program management. He has served as Chief of the Space and Networks IA Office, Chief Financial Officer of the NSA IA Directorate, Executive Assistant to the NSA SIGINT Collections and Operations Group and Field Chief of the Finksburg National Public Key Infrastructure/Key Management Infrastructure Operations Center. Mr. Lentz is a graduate of the National Senior Cryptologic Course at the National Cryptologic School, Federal Executive Institute (FEI) and the Resource Management Course at the Naval Postgraduate School. He earned a Bachelor of Science Degree with a double major in History and Political Science from Saint Mary's College of Maryland and a Masters Degree in National Security Strategy from the National War College.

Mr. Jim Lewis

James Lewis is a senior fellow at CSIS where he writes on technology, national security, and



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the international economy. Before joining CSIS, he worked for the federal government and received his Ph.D. from the University of Chicago.

Dr. Martin Libicki

Martin Libicki (Ph.D., city and regional planning, U.C. Berkeley) has been a senior management scientist at RAND since 1998, focusing on the relationship between information technology and national security. This work is documented in commercially published books, *Conquest in Cyberspace: National Security and Information Warfare*, and *Information Technology Standards: Quest for the Common Byte* as well as in numerous monographs, notably *What is Information Warfare*, *The Mesh and the Net: Speculations on Armed Conflict in a Time of Free Silicon*, and *Who Runs What in the Global Information Grid*. He was also the editor of the RAND textbook, *New Challenges New Tools for Defense Decisionmaking*. His most recent assignments were to create and analyze a database of post-WWII insurgencies, devise a strategy to maximize the use of information and information technology in countering insurgency, explore terrorist targeting preferences, develop a post-9/11 information technology strategy for the U.S. Department of Justice, and DARPA's Terrorist Information Awareness program, conduct an information security analysis for the FBI, and assess CIA's R&D venture, In-Q-Tel. Other work has examined information warfare and the revolution in military affairs. Prior employment includes 12 years at the National Defense University, three years on the Navy Staff as program sponsor for industrial preparedness and three years as a policy analyst for the GAO's Energy and Minerals Division. He has also received a master's degree in city planning from U.C. Berkeley (1974).

Ms. Michele Markoff

Michele Markoff has spent 25 years in the federal government as an expert in a range of political-military related positions. For the last decade she has been the State Department expert overseeing the development and implementation of foreign policy on cyberspace issues. In 2008, she became head of a newly formed office within the State Department designed to develop international cyber strategies and facilitate internal and interagency coordination of the range of international cyber policy and operations issues. As Senior Coordinator for International CIP between 1998 and 2007, Ms. Markoff was charged with devising U.S. international diplomatic strategies to encourage foreign nations and allies to take systematic steps to protect their critical information infrastructures from both cyber and physical attack, thereby reducing risk to linked, often highly interdependent U.S. critical national infrastructures. Ms. Markoff also managed State Department coordination on the foreign policy issues associated with military uses of information technology. Ms. Markoff, an expert in Russian and Chinese military affairs and decision-making, spent the first half of her career in a variety of strategic nuclear arms-control-related posts: As State



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Department Advisor and then Executive Secretary to the INF and START Talks; later as Senior Policy Advisor and Director of the U.S. Arms Control and Disarmament Agency's Policy Planning Group. Ms. Markoff also spent time as a Senior Associate in the consulting firm of Tower and Associates, headed by former Texas Senator John G. Tower. Ms. Markoff has a B.A. in International Relations from Reed College, an M.A. in International Relations, an M.Phil. in Political Science from Yale University, and a M.S. in National Security Strategy from the National War College of the United States.

Dr. Roger Molander

Roger Molander has led the development of RAND's "Day After..." exercise methodology for exploring new types of strategic conflicts. This methodology was originally developed to explore the counter-nuclear proliferation problem and more recently has been applied to cyberspace warfare against critical U.S. infrastructures; the potential impact of various emerging facets of electronic commerce such as e-cash, Internet banking, and Internet gambling on the U.S. and global anti-money laundering strategy; and the international Y2K problem. Dr. Molander was a member of the National Security Council staff at the White House from 1974 through 1981 where his principal area of responsibility was strategic nuclear arms control. Prior to joining the NSC staff, he was employed in the U.S. Department of Defense. He has a PhD in engineering science and nuclear engineering from the University of California at Berkeley.

Dr. James Mulvenon

James Mulvenon is Vice-President of DGI's Intelligence Division, as well as co-founder and Director of its Center for Intelligence Research and Analysis, where he has recruited and trained a team of nearly twenty Chinese, Arabic, Farsi, Pashto-Urdu and Korean linguist-analysts performing cutting-edge contract research and analysis for the US intelligence community. Previously, Dr. Mulvenon was a Political Scientist at the RAND Corporation in Washington, DC and Deputy Director of RAND's Center for Asia-Pacific Policy, where he built a team of ten Chinese linguist-analysts providing research for the Department of Defense and the US Government. A Chinese linguist and a specialist on the Chinese military, his current research focuses on Chinese C4ISR, defense research/development/acquisition organizations and policy, strategic weapons doctrines (computer network attack and nuclear warfare), patriotic hackers, military leadership and corruption, and the military and civilian implications of the information revolution in China. His book *Soldiers of Fortune* (Armonk, NY: M.E. Sharpe, 2001), examines the rise and fall of the Chinese military's multi-billion dollar business empire. Dr. Mulvenon received his Ph.D. in political science from the University of California, Los Angeles.



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Mr. Barry Pavel

Mr. Pavel is the Chief of Staff and Acting Principal Deputy Assistant Secretary of Defense for Special Operations/Low-Intensity Conflict & Interdependent Capabilities. He assists the ASD (SO/LIC&IC) in the development of policy regarding the capabilities and operational employment of special operations forces, strategic forces and conventional forces. He also assists the ASD on counterterrorism strategy, irregular warfare and force transformation. His recent main areas of work include policy oversight for strategic capability matters (including development of a cyber deterrence policy and better aligning the Department's approach to cyber activities and capabilities with defense strategy and policy) and Global War on Terrorism policy. Mr. Pavel has led or contributed to a broad range of defense strategy and planning initiatives over the last decade. He played a leading role in the organization and conduct of the 2001 Quadrennial Defense Review. He also was a leading contributor and drafter of the 2005 U.S. National Defense Strategy and was a key architect of the ongoing U.S. global defense posture realignment.

Dr. Charles Perkins

Dr. Perkins is the Principal Assistant Deputy Under Secretary of Defense in the Office of the Deputy Undersecretary of Defense for Advanced Systems and Concepts (AS&C). AS&C is responsible for speeding the introduction of new technology and concepts into the hands of the warfighter and to achieve this transformation in a sustainable manner so that these advanced capabilities can endure. AS&C utilizes a number of programs to achieve this goal including the Advanced Concept Technology Demonstration and Joint Capabilities Technology Demonstration ACTD/JCTD programs. Dr Perkins joined this organization in April 1994 as an Assistant Deputy Under Secretary of Defense responsible for oversight of specific ACTDs. Dr. Perkins also serves the Director of the Special Capabilities Office (SCO) and the Technology Integration Office (TIO) within AS&C. The SCO addresses classified technologies and projects for the warfighting and Intelligence communities. The TIO performs specialized system level work for the Department of Defense. In addition to his AS&C duties, Dr Perkins serves as a senior advisor to the Joint Staff, US Strategic Command and a number of Intelligence Community organizations. Dr. Perkins has a wide range of technical experience. From 1993 to 1994, he was a Senior Technical Advisor at SRI International in Menlo Park, California. In 1993, he was Vice President for Technology for SWL Inc., a GRC International company. In this capacity he was responsible for fostering the development, prototyping and commercialization of technology. From 1982 to 1993, he was the Vice President and Director of the Special Projects Division of General Research Corporation, a GRC International company. In this capacity, he supported numerous studies, analyses, simulations and other activities for the Department of Defense, the Intelligence Community and other Government agencies. From 1966 to 1982, Dr. Perkins was a staff member of General Research Corporation where he served in



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various capacities. From 1964 to 1966, he served as a First Lieutenant in the U.S. Army at the White Sands Missile Range in New Mexico. There he was a missile flight safety officer and Chief of a section providing real-time computing support to the range. Prior to 1964, Dr. Perkins held positions at Lincoln Laboratory, United Aircraft Research Corporation and the Douglas Aircraft Company. Dr. Perkins holds Doctor of Science (1964) and Masters (1960) degrees from the Massachusetts Institute of Technology in Aeronautics and Astronautics and a Bachelor of Aeronautical and Astronautical Engineering degree from Rensselaer Polytechnic Institute (1959). He is a member of Tau Beta Pi, Sigma Gamma Tau, and Sigma Xi honorary societies and holds two U.S. Patents.

Mr. Terry Pudas

Terry Pudas is a Senior Research Fellow at CTNSP. His work is primarily focused on transformation and related national security issues. Prior to joining the Center, he served as the Deputy Assistant Secretary of Defense (acting), Forces Transformation and Resources in the office of the Under Secretary of Defense for Policy. In September of 2001 he was appointed as the Deputy Director of the newly created Secretary of Defense Force Transformation Office. He served as the Acting Director from January 2005 to October 2006. His primary role was to serve as advocate, focal point, and catalyst for the Department of Defense transformation efforts. Terry Pudas retired from the Navy in September, 2001 with over 32 years of service after serving as the Deputy and Executive Assistant to the President of the Naval War College in Newport, Rhode Island. He is a 1969 graduate of the University of Washington. In addition to his Bachelor of Science degree he holds a Master of Arts degree in National Security and Strategic Studies from the Naval War College and a Master of Arts degree in Management from Webster University. He also holds a diploma with honors in German language studies from the Defense Language Institute.

Mr. Andy Purdy

Andy Purdy is on the Executive Advisory Board of BigFix, Inc. and is a partner with the law firm of Allenbaugh Samini, LLP (www.alsalaw.com), in Washington, DC. He is also President of DRA Enterprises, Inc. (www.andypurdy.com), specializing in IT consulting, business development, and government relations. Mr. Purdy was a member of White House staff team that helped to draft the U.S. National Strategy to Secure Cyberspace (2003). At the Department of Homeland Security Mr. Purdy helped to form the National Cyber Security Division (NCSA) and the U.S. Computer Emergency Readiness Team (US-CERT), where he worked for three and a half years, the last two as the Acting Director of the NCSA and US-CERT. In 2006 he completed service as a Special Government Employee on the Defense Science Board Task Force on Mission Impact of Foreign Influence on DoD Software. Before joining the White House staff, Mr. Purdy served as Acting General Counsel, and long-time Chief Deputy General Counsel at the U.S. Sentencing Commission.



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Mr. Purdy served as an Assistant U.S. Attorney in the Eastern District of Pennsylvania, Senior Staff Counsel of the House Select Committee on Assassinations, Special Counsel to the House Committee on Standards of Official Conduct (Ethics), and Counsel to the Senate Impeachment Trial Committee (on the articles against Judge Walter Nixon). He also served for five years in network television news as an Associate Producer for NBC News magazines, and Producer for the CBS News broadcast NIGHTWATCH in Washington, D.C.

Ms. Erica Russell

Ms. Russell joined OSD-Policy in October 2007 and serves in OASD SO/LIC&IC where she develops Department of Defense policy on cyber issues related to computer network and cyberspace operations. Her most recent work has involved providing DoD support to the U.S. Government interagency effort to draft a cyber deterrence strategy. Ms. Russell was commissioned as a second lieutenant in the U.S. Army through ROTC and subsequently served for 17 years in military intelligence. Her assignments included tours in Germany, Washington, D.C., Fort Bragg, Fort Hood, and England in various positions in intelligence analysis and production, security, operations security, computer and information security, unit operations, and psychological operations. After retirement from military service, Ms. Russell entered civil service. Her jobs have included serving as an information operations (IO) planner at the U.S. Army's First Information Operations Command; during this time she deployed to Bosnia to provide IO planning support to Headquarters, SFOR. She moved to the Joint Task Force-Global Network Operations (JTF-GNO) where she worked for three years as the deputy chief of intelligence. In this position she managed the growth of the intelligence section from four to over 25 personnel and created the intelligence staff organization and personnel positions. She also served as the senior intelligence analyst for computer network threats and provided intelligence production oversight. Subsequently, Ms. Russell worked for five years at the Department of State as the deputy for international critical infrastructure protection (CIP) and cyber security outreach in the Bureau of Political-Military Affairs. In this position, she developed and guided implementation of foreign policy focused on assisting other nations in their development and implementation of national-level CIP programs and policies. She served as the U.S. head or deputy of several State-led interagency delegations in various bilateral CIP meetings with allies and partners. She developed a USG initiative to help select countries improve the protection of vital energy infrastructures on which the U.S. and the world rely. Ms. Russell has an MA in International Relations from the University of Southern California; a Master's of Military Arts and Science from the U.S. Army Command and General Staff College; a Master's Certificate in Telecommunications and National Security from the George Washington University; and BA in Russian from the University of Texas at Arlington.



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Dr. Stuart Starr

Dr. Stuart H. Starr is a Senior Research Fellow at the Center for Technology and National Security Policy (CTNSP), National Defense University (NDU), Fort McNair, Washington, DC. Concurrently, he serves as President, Barcroft Research Institute (BRI), where he consults on Command and Control (C2) and Modeling and Simulation (M&S) issues (e.g., Institute for Defense Analyses (IDA)), serves on senior advisory boards to defense industry (e.g., Northrop Grumman), lectures to audiences world-wide on C2 and M&S issues, and participates on Blue Ribbon panels (e.g., member of the Army Science Board (ASB)). Prior to founding BRI, Dr. Starr was Director of Plans, The MITRE Corporation; Assistant Vice President for C3I Systems, M/A-COM Government Systems (currently a unit of SAIC); Director of Long Range Planning and Systems Evaluation, OASD(C3I), OSD (where he was member of the Senior Executive Service); and Senior Project Leader, IDA. Dr. Starr received a B.S. in Electrical Engineering from Columbia University in 1963. He received his M.S. and Ph.D. in Electrical Engineering from the University of Illinois in 1965 and 1969, respectively, and was a Fellow at MIT's Seminar XXI during 1989 - 1990. He is a member of Phi Beta Kappa and Pi Mu Epsilon, a former National Science Foundation Fellow, a Fellow of the Military Operations Research Society (MORS), an Associate Fellow of the American Institute for Aeronautics and Astronautics (AIAA), and a Senior Member of the IEEE. He was awarded the Clayton Thomas Medal for lifetime accomplishments in operations research by MORS in 2004. He has contributed to five books and published in excess of one hundred technical papers in the areas of C2, M&S, systems acquisition, and transportation. Dr. Starr is a member of the ASB, former chairman of the AIAA Technical Committee on Information and C2 Systems, former member of the Board of Directors of MORS, and a frequent participant on White House Task Forces, NATO panels, and summer studies sponsored by the Director of Net Assessment, OSD.

Mr. K.A. (Kim) Taipale

Kim Taipale is the founder and executive director of the Center for Advanced Studies in Science and Technology Policy, a private research and advisory organization focused on information, technology, and national security policy, and is a senior fellow at the World Policy Institute. Mr. Taipale serves on the Markle Task Force on National Security in the Information Age and the Science and Engineering for National Security Advisory Board at The Heritage Foundation. He is also a partner in Stilwell Holding LLC, a private investment firm, and serves on the advisory board of Parkview Ventures, a technology-focused merchant bank. Mr. Taipale was previously a senior fellow at Columbia University, an investment banker at Lazard Freres & Co., the senior corporate development officer at a Fortune 500 company, and a lawyer at Davis Polk & Wardwell. Mr. Taipale is a frequent invited speaker, has appeared before Congressional and other national committees, and is the author of numerous academic papers, journal articles, and book chapters on information,



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technology, and national security issues. Mr. Taipale received his B.A. and J.D. from New York University and his M.A., Ed.M., and LL.M. from Columbia University.

Ms. Eneken Tikk

Eneken Tikk is Head of the Cyber Defence Legal Expert Team at the Estonian Ministry of Defense; adviser on information law and legal policy to the Estonian Ministry of Justice; Legal Advisor to the NATO Cooperative Cyber Defence Centre of Excellence; and at the Estonian Informatics Centre (includes CERT), she is a legal expert on personal data, databases and public information law. Ms. Tikk is a lecturer on information law and legislative drafting at Tartu University, and she teaches a course on cyber defense legal frameworks for IT students at Tallinn Technical University. Ms. Tikk is currently working in various research programs, including the “Harmonization of Information Law and Legal Theoretical Approach to Regulation of Information” and the “Estonian Legal Space in Global Legal Space” programs sponsored by Tartu University/Estonian Science Foundation. She has participated in the Legal Expert Group on Cyber Defense (Estonian Ministry of Economy and Communications) and the Joint Analysis Group on Cyber Defense and National Cyber Strategy (Estonian Ministry of Defense). Ms. Tikk led preparations for the 2nd Data Protection Evaluation for Schengen Information System for the Estonian Ministry of Justice, and she has acted as the legal expert to the E-Health Information System for the Estonian Ministry of Social Affairs. For the UNESCO ICII Conference, she was the Delegate of UNESCO ENC, Mainz (2002) and Leiden (2005). Ms. Tikk is the founder of both the Estonian IT Law Association and the DLL IT and Media Law Institute, where she is also chairman. She is also chairman of the Estonian E-Business Society. Ms. Tikk’s publications and presentations include the textbook Information and Law (in Estonian); Legal and Policy Evaluation: International Coordination of Prosecution and Prevention of Cyber Terrorism, an article for NATO Defence Against Terrorism Centre of Excellence; Legal Lessons Learned from “Bronze Soldier” Cyber Attacks, a presentation prepared for the Finnish IT law Association and U.S. Naval Criminal Investigative Service; and an article on Applicability of the Census Case in the Estonian Personal Data Protection Law. Ms. Tikk received her B.A. in Law from the University of Tartu, her Magister Juris from the University of Tartu (with a focus on IT and Electronic Communications law), and she is currently pursuing a Ph.D. in Law at Tartu University, with a focus in Information Technology and Cyber Defense law.

Hon. Ted Warner

Dr. Ted Warner, a Principal at Booz Allen Hamilton, performs and oversees consulting work to support the development of enhanced U.S. military capabilities. He works with teams of strategic planners, defense analysts and experts in concept development and experimentation, wargaming, modeling & simulation, and capabilities-based analysis to



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assist the Office of the Secretary of Defense, the Services, the Joint Staff, and the Unified Combatant Commands (in particular, U.S. Joint Forces Command) as they formulate new joint and Service concepts and develop and acquire improved capabilities to carry out the full range of military operations. Before joining Booz Allen, Dr. Warner was the Assistant Secretary of Defense for Strategy and Requirements from May 1993 until November 1997 and the Assistant Secretary of Defense for Strategy and Threat Reduction from November 1997 until October 2000. From 1982 to 1993, Dr. Warner was a senior defense analyst with the Rand Corporation in Washington, D.C. Prior to that, Dr. Warner retired from the Air Force after twenty years service that included assignments as head of the Staff Group, Office of the Air Force Chief of Staff; assistant air attaché in the US Embassy, Moscow, an analyst of Soviet military affairs with the CIA, and as an Assistant Professor of Political Science at the U.S. Air Force Academy. Dr. Warner received his BS degree in Marine Engineering from the U.S. Naval Academy and his MA and Ph.D in Politics from Princeton University.

Mr. Gregory Weaver

Mr. Weaver is the USSTRATCOM J5B, Senior Advisor for Strategy and Plans. Before assuming this position he was a Program Manager and Assistant Vice President with Science Applications International Corporation (SAIC). Mr. Weaver led the establishment of STRATCOM's Strategic Deterrence Assessment Lab, and co-authored the Defense Department's Deterrence Operations Joint Operating Concept. Mr. Weaver served as Legislative Assistant for Defense Policy to Senator Carl Levin (D-MI) and Representative Charles Bennett (D-FL). He has a Masters in International Relations from the University of Pennsylvania and a Bachelors in Comparative and Regional Studies from Georgetown University's School of Foreign Service. Mr. Weaver is pursuing a Ph.D. in Political Science at the University of Nebraska - Lincoln.

Dr. Linton Wells

Dr. Linton Wells II is a Distinguished Research Fellow and serves as the Force Transformation Chair at NDU. Prior to coming to NDU he was the Principal Deputy Assistant Secretary of Defense (Networks and Information Integration). He assumed these duties on November 14, 2005 after serving as the Acting Assistant Secretary and DoD Chief Information Officer from March 8, 2004. He became the Principal Deputy Assistant Secretary of Defense (Command, Control, Communications and Intelligence) on August 20, 1998 which became Networks and Information Integration in 2003. Prior to this assignment, he had served in the Office of the Under Secretary of Defense (Policy) from 1991 to 1998, most recently as the Deputy Under Secretary of Defense (Policy Support). In twenty-six years of naval service, Dr. Wells served in a variety of surface ships, including command of a destroyer squadron and guided missile destroyer. Dr. Wells was born in Luanda, Angola, in 1946. He was graduated from the United States Naval Academy in 1967 and holds a



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Bachelor of Science degree in physics and oceanography. He attended graduate school at The Johns Hopkins University, receiving a Master of Science in Engineering degree in mathematical sciences and a PhD in international relations. He is also a 1983 graduate of the Japanese National Institute for Defense Studies in Tokyo, the first U.S. naval officer to attend there. Dr. Wells has written widely on security studies in English and Japanese journals. He co-authored *Japanese Cruisers of the Pacific War*, which was published in 1997. His hobbies include history, the relationship between policy and technology, scuba diving, and flying.

Mrs. Rosemary Wenchel

Mrs. Rosemary Wenchel is the Director of Information Operations and Strategic Studies (DIOSS) in the Office of the Under Secretary of Defense for Intelligence. She is responsible for Departmental activities pertaining to policy development, guidance, and oversight of Information Operations (IO). She also exercises supervisory authority over specified Department Field Activities which provide analysis and integration activities for the Secretary of Defense and participating Defense Components. Mrs. Wenchel joined the Office of the Secretary of Defense (OSD) staff in 2006 as the Senior Advisor for IO and Strategic Studies. In this position, she was the principal technical advisor for complex IO and classified technology integrating activities that affect military departments, combatant commands, and intelligence agencies. In 2007, Mrs. Wenchel also assumed responsibility for the IO Division as Acting Division Chief. In this role, she directed policy, resources, and programmatic strategies for DoD IO. Prior to joining OSD, Mrs. Wenchel was the Director of Navy Tactical Exploitation of National Capabilities (TENCAP) for the Deputy Chief of Naval Operations for Communication Networks, OPNAV N6. As the Director, she led an R&D organization which developed rapid-prototype capabilities based on national technical means, with particular emphasis on accelerated transition to operational use by Naval, Joint and DoD mission partners. She was also the Deputy Branch Head for Battlespace Awareness, TENCAP, and IO. As such, she contributed to the development of the Navy corporate business plan for future resources and programs for IO and ISR. From 2002 to 2005 Mrs. Wenchel served as the Chief Scientist to the Commander, Naval Security Group for IO and Cryptologic research and development (R&D), acquisition programs, and analytic modeling. As the Senior Technical Advisor she initiated concepts for new IO and Intelligence, Surveillance, and Reconnaissance (ISR) programs, and shaped future corporate investments. Mrs. Wenchel joined the Naval Information Warfare Activity (NIWA) in 1995. Over the next four years she built the Naval Information Warfare Analysis Center (NIWAC) from an unfunded concept into a robust organization. In 1999, she assumed the role as the Head of the Computational Analysis, Design Engineering, and Testing Department at the Naval Research Lab. Her Department applied innovative technical research to advance IO capabilities, including the development of prototype systems and the



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integration of mission planning and targeting software. Mrs. Wenchel began her professional career with the Naval Security Group (NSG) as a Computer Systems Programmer in 1989. In this position, she was the Systems Manager for the NSG Headquarters, where she managed enterprise computer systems, networks, databases, and business applications. Mrs. Wenchel earned a B.S. from Old Dominion University and a M.S. from the University of Maryland. She is the recipient of two Meritorious Civilian Service Awards.

Mr. Thomas Wingfield

Thomas C. Wingfield is a national security attorney and an Associate Professor at the U.S. Army's Command and General Staff College at Fort Belvoir, Virginia, where he lectures on strategy and operations, with a focus on operational law. His research centers on the use of force in cyberspace. Mr. Wingfield is a Lecturer in Law at Catholic University, an Adjunct Professor at the Georgetown Public Policy Institute, and an Adjunct Research Fellow at the Potomac Institute for Policy Studies. He holds a J.D. and an LL.M. from Georgetown University Law Center, and is completing an S.J.D. at the Law School of the University of Virginia. A former Chair of the American Bar Association's Committee on International Criminal Law, he is the author of *THE LAW OF INFORMATION CONFLICT: NATIONAL SECURITY LAW IN CYBERSPACE*.

Mr. Bill Woodcock

Bill Woodcock is research director of Packet Clearing House, a non-profit international organization which supports critical communications infrastructure, including Internet exchange points and the core of the Domain Name System. Bill has operated international Internet service provision and content delivery networks since 1989, and presently spends most of his time working to improve efficiency and stability in the operations of critical Internet infrastructure. In addition to PCH, he serves on the boards of directors of the American Registry for Internet Numbers, the Internet Capacity Development Consortium, and a number of for-profit ventures in the communications and information security sectors. He also serves on the program committees of NANOG, APRICOT, and SANOG, and has published a book and numerous articles in networking publications.