

SPEAKER BIOGRAPHIES

Dr. Hans Binnendijk

Hans Binnendijk is currently the Theodore Roosevelt Chair in National Security Policy and Founding Director of the Center for Technology and National Security Policy at the National Defense University. He previously served on the National Security Council as Special Assistant to the President and Senior Director for Defense Policy and Arms Control (1999-2001). From 1994 to 1999, Dr. Binnendijk was Director of the Institute for National Strategic Studies at the National Defense University. Prior to that, he was Principal Deputy Director and Acting Director of the State Department's Policy Planning Staff (1993-1994). He also served as Deputy Staff Director and Legislative Director of the Senate Foreign Relations Committee (1980-1985). He has received numerous awards for his government service, including two Distinguished Public Service Awards and a Superior Service Award. In academia, Dr. Binnendijk was Director of the Institute for the Study of Diplomacy at Georgetown University, where he was also the Marshall B. Coyne Research Professor at the Edmund A. Walsh School of Foreign Service (1991-1993). He was Deputy Director and Director of Studies at London's International Institute for Strategic Studies and Editor of *Survival* from 1988-1991. He is author or co-author of more than 100 articles, editorials and reports. His most recent book is *Seeing the Elephant: The U.S. Role in Global Security* (Potomac Books: 2006). Dr. Binnendijk is a 1968 graduate of the University of Pennsylvania. He received his M.A.L.D. and his Ph.D. in international relations from the Fletcher School of Law and Diplomacy, Tufts University.

Marjory Blumenthal

Marjory Blumenthal joined Georgetown University in August 2003 as Associate Provost, Academic. Her responsibilities are broad, notably including leadership in strengthening the sciences and science and technology policy at Georgetown. (Other responsibilities include campus-wide academic planning, diversity, and oversight of international initiatives, the Kennedy Institute of Ethics, the Center for New Designs in Learning and Scholarship, the Gervase Programs (which concentrate on undergraduate leadership), and the School of Continuing Studies.) She teaches and advises students on Internet policy, an area where she continues to pursue personal research. Between July 1987 and August 2003, Marjory built and served as Executive Director of the National Academies' Computer Science and Telecommunications Board (CSTB). She designed, directed, and oversaw collaborative study projects, workshops, and symposia on technical and policy issues in computing and telecommunications. These activities, involving groups of experts from academia and industry, influenced public policy as well as the scholarship or strategies of participants. Marjory is the principal author and/or substantive editor of numerous books and articles, and she serves on a variety of boards. She did her undergraduate work at Brown University and her graduate work at Harvard University.

General James Cartwright

General Cartwright serves as the eighth Vice Chairman of the Joint Chiefs of Staff. In this capacity, he is a member of the Joint Chiefs of Staff and the Nation's second highest ranking military officer. As Vice Chairman, General Cartwright chairs the Joint Requirements Oversight Council, Co-Chairs the Defense Acquisition Board, and serves as a member of the National Security Council Deputies Committee, the Nuclear Weapons Council and the Missile Defense Executive Board. In addition, he Co-Chairs the Deputies Advisory Working Group, which provides advice to the Deputy Secretary of Defense Gordon England on resourcing and other high level departmental business issues.

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. David Clark

David Clark is a Senior Research Scientist at the MIT Computer Science and Artificial Intelligence Laboratory, where he has worked since receiving his Ph.D. there in 1973. Since the mid 70s, Dr. Clark has been leading the development of the Internet; from 1981-1989 he acted as Chief Protocol Architect in this development, and chaired the Internet Activities Board. His current research looks at re-definition of the architectural underpinnings of the Internet, and the relation of technology and architecture to economic, societal and policy considerations. He is helping the U.S. National Science foundation organize their Future Internet Design program. Dr. Clark is past chairman of the Computer Science and Telecommunications Board of the National Academies, and has contributed to a number of studies on the societal and policy impact of computer communications. He is co-director of the MIT Communications Futures Program, a project for industry collaboration and coordination along the communications value chain.

Mr. Leon Fuerth

Leon Fuerth is the former national security adviser to Vice President Al Gore. As the vice president's national security advisor, Fuerth created and managed five bi-national commissions with Russia, South Africa, Egypt, Ukraine and Kazakhstan. These commissions turned the vice president's vision of forward engagement in America's foreign affairs into a practical reality. Among other important initiatives, Fuerth led efforts to develop the International Space Station with the Russians and other partners; to marshal international support for sanctions against Slobodan Milosevic's regime, contributing to the victory of democracy in the Balkans; to raise awareness and take action to prevent the spread of

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HIV/AIDS in Africa; to denuclearize former Soviet states by providing alternative energy sources and employment opportunities for nuclear scientists; to win China's cooperation in protecting the environment and reducing pollution; and to spur foreign investment in Egypt, offering a positive example for other Arab nations involved in the Middle East peace process. Before beginning his work on Capitol Hill in 1979, Fuerth spent eleven years as a foreign service officer, serving in such places as the U.S consulate in Zagreb and the State Department. He holds a bachelor's degree in English and a master's degree in history from New York University, as well as a master's degree in public administration from Harvard University. Mr. Fuerth's term as J.B. and Maurice C. Shapiro Professor of International Affairs at the Elliott School ended in December 2002. In January 2003, he was appointed Research Professor at the Elliott School.

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.

Melissa Hathaway

Melissa E. Hathaway is a Senior Advisor for the Director of National Intelligence (DNI) and Cyber Coordination Executive. She chairs the National Cyber Study Group (NCSG), a senior-level interagency body that was instrumental in developing the Comprehensive Cybersecurity Initiative (CNCI) aimed at substantially improving the ability of the United States to secure and defend its critical cyber national infrastructure. In January Ms. Hathaway was appointed to be the Director of the Joint Interagency Cyber Joint Task Force (JIACTF) to coordinate and monitor the implementation of the broad portfolio of activities and programs that comprise the CNCI. Prior to her appointment as Senior Advisor, Ms. Hathaway was a Principal with the consulting firm Booz Allen Hamilton, where her

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responsibilities focused on leading two primary business units: information operations and long range strategy and policy support. Her work included the design and development of novel techniques for mapping social, business, and process and infrastructure relationships. She also led the design and development of a methodology for evaluating new force options across the electromagnetic spectrum. Earlier in her career, Ms. Hathaway was employed with the consulting firm Evidence Based Research, where she performed research and developed databases to track economic and political issues in Eastern Europe and the former Soviet Union, developed a model to detect the routes and modes and to estimate the quantities of cocaine movement into the United States and studied other key issues in support of the Intelligence Community. Ms. Hathaway has a B.A. degree from The American University in Washington, DC. She has completed graduate studies in international economics and technology transfer policy, and is a graduate of the US Armed Forces Staff College, with a special certificate in Information Operations.

The Honorable Frank 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.

Dr. Daniel 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

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information age and national security.

Dr. Richard Kugler

Richard L. Kugler was a Distinguished Research Professor at the Center for Technology and National Security Policy (CTNSP), National Defense University. His specialty is U.S. defense strategy, global security affairs, and NATO. He advises senior echelons of the Office of the Secretary of Defense, the Joint Staff, and the interagency community. He is the author of multiple books, journal articles, and official studies on U.S. defense strategy and programs as well as NATO and global security affairs. Dr. Kugler has his doctorate from the Massachusetts Institute of Technology.

Mr. Harold Kwalwasser

Harold Kwalwasser is an independent telecommunications consultant based in Washington, DC. He is the Chair of the US International Telecommunication Union Association, which is an organization of telecommunications-related companies and consultancies that have an interest in the operation of the International Telecommunication Union. Previously, Mr. Kwalwasser was Deputy General Counsel/Legal Counsel of the Department of Defense and General Counsel of the Los Angeles Unified School District. He practiced law for sixteen years with the Los Angeles law firm of Tuttle & Taylor. Mr. Kwalwasser holds a B.A. with High Honors from Swarthmore College, and a J.D. from Yale Law School, where he was an editor of the Yale Law Journal.

Dr. Irv Lachow

Irv Lachow is a Senior Research Professor at the National Defense University's Information Resources Management College. Dr. Lachow has extensive experience in both information technology and national security. He has worked for Booz Allen Hamilton, the RAND Corporation, and the Office of Deputy Under Secretary of Defense (Advanced Systems & Concepts). Dr. Lachow received his Ph.D. in Engineering & Public Policy from Carnegie Mellon University. He earned an A.B. in Political Science and a B.S. in Physics from Stanford University.

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,

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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.

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).

Mr. William O'Neil

William D. O'Neil studied mathematics, engineering, economics, and operations analysis at UCLA, where he earned his B.A. and M.S. degrees. He served as a Navy surface warfare officer on active duty in the early 1960s and remained very active in the reserves for many years. After a few years in technical and junior management positions in California's defense industry in the 1960s, he joined the Secretary of the Navy's Office of Program Appraisal as a technical advisor. In the early 1970s, he moved to the Office of the Secretary of Defense, serving in high level technical management positions dealing with a variety of naval and aviation systems. From 1977 to 1984 he held oversight responsibility over all R&D and acquisition programs for naval warfare and strategic mobility. Joining Lockheed Corp. (as it then was), he became the chief of systems engineering for the early phases of their work on the F-22 advanced-technology fighter. He was Lockheed's corporate director of strategic planning and director of an office for coordination of corporate activities in antisubmarine and undersea warfare. In 1991 he accepted a position as a vice president of the Center for Naval Analyses, directing a major division responsible for technologically-oriented analyses. In 2000, he was named CNA's chief scientist, with responsibilities for work aimed at serving the needs of top-level defense policymakers, with particular emphasis on defense transformation. He has written many articles and monographs relating to defense technology and policy and since retiring from CNA in 2006 has devoted himself to writing and consulting.

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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. 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.

The Honorable Adam Smith

Congressman Smith has lived his entire life in the 9th District of Washington State and resides in Tacoma. Now in his 6th term, Smith serves on both the Armed Services Committee and Foreign Affairs Committee. As an 11 year member of the House Armed Services Committee, he chairs the Subcommittee on Terrorism, Unconventional Threats and Capabilities, which oversees the Defense Department's efforts to counter cyber threats, among other critical areas. Given his committee assignments, Smith has unique insights into today's foremost national security issues, including the ongoing conflicts in Iraq and Afghanistan as well as our larger efforts to stop the spread of terrorist groups and their violent, totalitarian ideology. Smith returned just yesterday from Afghanistan, Pakistan, and the United Kingdom, where he led a Congressional delegation focused on counterterrorism and counterinsurgency activities. In addition to representing McChord Air Force Base, Ft. Lewis, and Camp Murray he carries oversight responsibilities on those who formulate our nation's defense and foreign policy, and meets regularly with the commanders and soldiers that carry out our missions.

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);

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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. Timothy Thomas

Timothy L. Thomas is an analyst at the Foreign Military Studies Office (FMSO) at Fort Leavenworth, Kansas. He retired from the U.S. Army as a Lieutenant Colonel in the summer of 1993. Mr. Thomas received a B.S. from West Point and an M.A. from the University of Southern California. He was a U.S. Army Foreign Area Officer who specialized in Soviet/Russian studies, serving as the Director of Soviet Studies at the United States Army Russian Institute (USARI) in Garmisch, Germany and as an inspector of Soviet tactical operations under CSCE. Mr. Thomas has done extensive research and publishing in the areas of peacekeeping, information war, psychological operations, low intensity conflict, and political military affairs. His three books are *Dragon Bytes*, *Cyber Silhouettes*, and *Decoding the Virtual Dragon*.

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 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

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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.

Mr. Larry Wentz

Mr. Larry Wentz is a Senior Research Fellow at the Center for Technology and National Security Policy, National Defense University, Fort McNair, Washington, DC and consults on Command and Control (C2) issues. He is an experienced manager, strategic planner, and C4ISR systems engineer with extensive experience in the areas of Nuclear C2, Continuity of Government C2, multinational military C2 and C3I systems interoperability, civil-military operations and information operations support to peace operations and numerous other military C4ISR activities. He also has extensive experience in business process reengineering, strategic planning and commercial telecommunications and information systems and their use in support of military C2. Mr. Wentz has undergraduate degrees in Electrical Engineering from Pennsylvania State University and Monmouth College and a graduate degree in Systems Engineering and Operations Research from the University of Pennsylvania Moore School of Engineering. He has completed the Executive Management Program at the University of Pennsylvania's Wharton Business School and the Harvard John F. Kennedy School of Government Program for Senior Executives in National and International Security.

Dr. Clay Wilson

Clay Wilson received his Ph.D. from George Mason University in 2001, and his M.S. from the University of Maryland in 1994. From 2001 to 2003, he taught computer security and risk analysis at the University of Maryland University College, and currently teaches at the National-Louis University. He served as a government representative to the Critical Infrastructure Coordination Group (CICG) to improve industry and government cooperation under U.S. Presidential Decision Directive 63. He has also served as a member of the advisory board for the Security Studies Laboratory at the University of Maryland, and on the Virginia Commonwealth Joint Commission on Technology and Science Subcommittee for Nanotechnology. Clay currently works as a Specialist in Information Technology and National Security in the Foreign Affairs, Defense, and Trade Division of the Congressional Research Service, where he has written policy reports on topics such as High-Energy Electromagnetic Pulse and Microwave Devices, Improvised Explosive Devices, Cyberterrorism, Cybercrime, Information Operations, and Virtual Reality. He has presented at international conferences on computer crime, critical infrastructure protection, and on technology associated with network centric warfare. His writings appear in conference proceedings and other works, including the International CIIP Handbook. He received his Certification as an Information Systems Security Professional (CISSP) in 2001, and has 30 years experience working in information technology.

Professor 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

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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**.