

Intelligence Community Studies Board

Committee

Mark Lowenthal

Co-Chair

Mark M. Lowenthal is the president emeritus of the Intelligence & Security Academy, LLC, a national security education, training and consulting company. Dr. Lowenthal is an internationally recognized expert on intelligence. He teaches at the Johns Hopkins University in Washington, DC, Sciences Po in Paris and the Norwegian Intelligence Defence School in Oslo. From 2002-2005, Dr. Lowenthal served as the assistant director of Central Intelligence for Analysis and Production and as the vice chairman for evaluation on the National Intelligence Council. Prior to these duties, he served as counselor to the director of Central Intelligence. He has also been a deputy assistant Secretary of State for intelligence and staff director of the House Permanent Select Committee on Intelligence. Dr. Lowenthal has written extensively on intelligence and national security issues, including seven books and over 100 articles or studies. His most recent book, *Intelligence: From Secrets to Policy* (Sage/CQ Press, 9th edition, 2022) has become the standard college and graduate school textbook on the subject. He has also published three novels. Dr. Lowenthal received his B.A. from Brooklyn College and his Ph.D. in history from Harvard University. He was awarded the National Intelligence Distinguished Service Medal, the intelligence community's highest award. In 1988, Dr. Lowenthal was the grand champion on the television quiz show Jeopardy.

Michael A. Marletta

Co-Chair

Michael A. Marletta (NAS/NAM) is professor of chemistry, professor of molecular and cell biology, and the CH and Annie Li Chair in the Molecular Biology of Diseases at the University of California, Berkeley (UCB). After an A.B. degree in biology and chemistry from SUNY Fredonia in 1973, he received a Ph.D. in 1978 from University of California, San Francisco (UCSF) followed by a two year postdoctoral appointment at the Massachusetts Institute of Technology (MIT). In 1980, Dr. Marletta joined the faculty at MIT as an assistant professor in the Department of Applied Biological Sciences and was promoted to associate professor in 1986. In 1987, he moved to the University of Michigan as associate professor of medicinal chemistry in the College of Pharmacy and in 1989 associate professor of biological chemistry in the Medical School. In 1991, he was promoted to professor and was appointed as the John G. Searle Professor of Medicinal Chemistry. In 1997, he became an investigator in the Howard Hughes Medical Institute. Dr. Marletta moved to UCB in 2001 where he assumed the positions of professor of chemistry, Department of Chemistry and professor of biochemistry and molecular biology, Department of Molecular and Cell Biology. He was appointed the Aldo DeBenedictis Distinguished Professor of Chemistry in 2002. He served as chair of the Department of Chemistry at UCB from 2005-2010. In July 2011, he joined the faculty of the Scripps Research Institute and was named president-elect. He assumed the presidency in January 2012 to 2014. In 2015 he returned to Berkeley with appointments in the department of chemistry and molecular and cell biology. Selected awards include the George H. Hitchings Award for Innovative Methods in Drug Discovery and Design (1991) sponsored by the Burroughs Wellcome Fund; MacArthur Fellowship awarded by the John D. and Catherine T. MacArthur Foundation (1995); National Academy of Medicine (1999); American Academy of Arts and Sciences (2001); fellow of the American Association for the Advancement of Science (2001) National Academy of Sciences (2006); Harrison Howe Award (2004), Repligen Award (2007); Kaiser Award from the Protein Society (2007), Esselen Award for Chemistry in the Public Interest (2007); Alfred Bader Award in Bioorganic or Bioinorganic Chemistry (2015); Elected to the American Philosophical Society (2017); Honorary Doctor of Science, State University of New York (2018). He is a member of the American Chemical Society and the American Society for Biochemistry and Molecular Biology. He is a consultant for a number of pharmaceutical companies and serves on the scientific advisory boards of several others. He is a co-founder of Omnix, Inc. He is a member of the Fredonia College Foundation Board of Directors. He is also on the advisory board of a number of university departments and centers.

Jesse Bloom

Member

Jesse Bloom is a professor at the Fred Hutchinson Cancer Center and an Investigator of the Howard Hughes Medical Institute. His lab uses a combination of experimental and computational approaches to study the evolution of viruses, including influenza and SARS-CoV-2. Jesse's group is especially well known for developing methods to determine how viral mutations impact key properties such as immune escape or receptor binding. Jesse received his Ph.D. from Caltech in 2007 where he worked with Frances Arnold, and then performed postdoctoral research from 2007-2011 with David Baltimore also at Caltech. He has been faculty at the Fred Hutchinson Cancer Center since 2011.

Dean Cheng

Member

Dean Cheng is a Senior Fellow (non-resident) with the Potomac Institute for Policy Studies, and a Senior Adviser with the US Institute of Peace. He recently retired from the Heritage Foundation after 13 years as the Senior Research Fellow for Chinese Political and Security Affairs. Prior to joining the Heritage Foundation, he was a senior analyst with the Center for Naval Analysis, and with Science Applications International Corporation (SAIC), and was also an analyst with the US Congress' Office of Technology Assessment. He has served as a member of the National Space Council's Users Advisory Group. Mr. Cheng currently holds a number of security clearances. Mr. Cheng is fluent in Chinese, and uses Chinese language materials regularly in his work. He has written various studies on China's military doctrine, its defense industry and military mobilization concepts, space capabilities, and political warfare techniques. He is the Author of "Cyber Dragon: Inside China's Information Warfare and Cyber Operations." He has testified before Congress, and has regularly participated in a variety of US government-sponsored wargames. Mr. Cheng received a B.A. in politics from Princeton University. He studied for a Ph.D. in Political Science at the Massachusetts Institute of Technology. Mr. Cheng has addressed the NAS on China-related issues several times, including on China's space program and on Chinese hypersonic weapons development.

Hans R. Davies

Member

Hans Robert Davies is a futurist at Toffler Associates. Hans specializes in strategic planning, risk management, resource management, and innovation policy. As a professional futurist, he work with governments, commercial organizations, and NGOs to help leaders envision and explore possible futures; identify concrete steps they can take today to prepare for and even shape their future; and invest in technologies, processes, and people to take advantage of opportunities and mitigate risks. He is an experienced facilitator and strategic planner who has leveraged futures over the past 20 years to bring interdisciplinary and innovative solutions to bear on the problems facing organizations and society at large. He previously served as the futurist and facilitator for the National Academies report "Cryptography and the Intelligence Community: The Future of Encryption. Prior to joining Toffler Associates, Hans worked at SAIC, supporting arms control and complex operations initiatives for the Department of Defense. He has served as a Congressional staff member, worked with the Department of State, and was a Robert Bosch Foundation Fellow in Germany. Hans earned a B.A. with honors in history from Williams College and an M.A. in international relations and international economics from Johns Hopkins University.

Huban A. Gowadia

Member

Huban A. Gowadia serves as the Principal Associate Director for Global Security at Lawrence Livermore National Laboratory. In this capacity, she is responsible for programs that support international and domestic security, including overseeing LLNL responsibilities in intelligence analysis; energy and homeland security; nonproliferation; nuclear counterterrorism; and addressing chemical, biological, and explosive threats. She joined LLNL in May 2018 as the National Ignition Facility & Photon Science (NIF&PS) Deputy Principal Associate Director for Programs.

Gowadia has more than 20 years of experience supporting national security and has served at the highest levels of government. In her previous role as Acting Administrator at the Transportation Security Administration (TSA), she led a workforce of more than 60,000 employees charged with protecting our critical transportation systems and the traveling public. Prior to her service at TSA, she served as the Presidentially appointed Director of the Domestic Nuclear Detection Office at DHS. Gowadia has a B.S. in Aerospace Engineering from the University of Alabama and a Ph.D. in Mechanical Engineering from the Pennsylvania State University.

Michael S. Groen

Member

Michael S. Groen (Lieutenant General, USMC, Ret.) served for over 36 years in a variety of command, leadership, combat, and technical positions. He last served as the Director of the Joint Artificial Intelligence Center, where he was the senior executive for AI in the Department of Defense. Previously, he was the Deputy Chief of Computer Network Operations of the National Security Agency, and the former Intelligence advisor to the Chairman of the Joint Chiefs. His expertise centers on transformational technology and its application in Government, the Intelligence Community, Defense, and the commercial marketplace. His specialization includes artificial intelligence, cybersecurity, intelligence operations, national security, and digital transformation. Groen attended the Naval Postgraduate School in Monterey, California, graduating with Master of Science degrees in both Electrical Engineering and Applied Physics. He has been awarded the Defense Distinguished Service Medal, the Defense Superior Service Medal, the Bronze Star, the Combat Action Ribbon, and a number of campaign and commendatory awards.

Margaret A. Hamburg

Member

Margaret Hamburg (NAM) is an internationally recognized leader in public health, medicine, and biomedical research and innovation. She currently serves as the Co-President of the InterAcademy partnership, an international consortium of academies of science, medicine and engineering. She is also vice-chair of the President's Intelligence Advisory Board and a member of the U.S. Department of State's Foreign Affairs Policy Board. Prior to this she was Foreign Secretary, National Academy of Medicine, and recently finished her term as President/Chair of the American Association for the Advancement of Science. Other past positions include Commissioner of the Food and Drug Administration, founding vice president/senior scientist at the Nuclear Threat Initiative, Assistant Secretary for Planning and Evaluation, Department of Health and Human Services, New York City Health Commissioner, and Assistant Director of the National Institute of Allergy and Infectious Disease. Early in her career she did neuroscience research at Rockefeller University and the National Institutes of Health. She is considered an expert on biological threats, public health preparedness/emergency response and biomedical product development and innovation. Dr. Hamburg currently sits on numerous not-for-profit Boards and one biotech Board. She also serves in various advisory roles and has been a leader on many IOM/NASEM committees, workshops and roundtables. She is widely published and has received numerous awards and honorary degrees. Dr. Hamburg is a graduate of Harvard College and Harvard Medical School.

Steven B. Lipner

Member

Steven B. Lipner (NAE) is executive director of SAFECode. Mr. Lipner also serves as chair of the U.S. Information Security and Privacy Advisory Board and as an adjunct professor of computer science in the Institute for Software Research at Carnegie Mellon University. His expertise is in software security, software vulnerabilities, Internet security, and organization change for security. Previously, Mr. Lipner was a partner director of software security in Trustworthy Computing at Microsoft Corporation, where he was responsible for the Security Development Lifecycle team that delivered processes, tools and associated guidance and oversight that significantly improved the security of Microsoft's software. Mr. Lipner has almost 50 years of experience as a researcher, development manager, and general manager in IT security. He served as executive vice president and general manager for Network Security Products at Trusted Information Systems, where he was responsible for the Gauntlet Firewall product family. At Digital Equipment, he was responsible for the development of secure operating systems and network encryption and security management products. At the MITRE Corporation, he oversaw the creation of mathematical models and prototypes for secure computer systems. Mr. Lipner is the author of numerous professional papers, and named as an inventor on 12 U.S. patents in the field of computer and network security. Mr. Lipner earned an S.B. and S.M. in civil engineering from the Massachusetts Institute of Technology.

Laura A. McNamara

Member

Laura A. McNamara is an anthropologist currently managing the Radar ISR Advanced Exploitation and Human-Systems Integration group at Sandia National Laboratories in Albuquerque, NM, and was named a Distinguished Member of the Technical Staff at Sandia in 2017. Dr. McNamara is an expert in the application of industry human usability standards for defense and intelligence technologies. She began her career at Los Alamos National Laboratory in 1997, studying the problem of technical knowledge loss in the nuclear weapons program at the end of the Cold War. After spending several years in LANL's statistical sciences group, she accepted a position at Sandia National Laboratories in 2003. She has spent most of her career examining, often critiquing, how computational technologies impact human interaction with information in high-consequence analysis and decision environments. She edited an Elsevier book series Studies in Multidisciplinarity and has written extensively on ethnographic research in the national security community. She was a member of the American Anthropological Association's (AAA) Committee on the Engagement of Anthropology with the United States' Security and Intelligence Communities and worked with the AAA to modernize the Association's code of ethics. From 2011-2012, she served on the National Research Council's Committee on Improving the Decision-Making Abilities of Small Unit Leaders for the US Marine Corps. Dr. McNamara currently resides in Sandia Park, NM, with her husband and twelve dog paws.

Carmen L. Middleton

Member

Carmen L. Middleton is Vice President, Security, Parks & Resorts International, The Walt Disney Company. Carmen Landa Middleton had a 33-year career at the Central Intelligence Agency (CIA), during which she served as the Agency's Deputy Chief Operating Officer, the director of CIA's Open Source Center, and the CIA's chief diversity officer. At the time of her retirement, Carmen was the highest-ranking Latina in the Intelligence Community. In 2017, Carmen founded Common Table Consulting, LLC, working with companies and organizations to strengthen their competency in leading and engaging with diverse organizations. In 2020, Carmen joined The Walt Disney Company in its Global Security Department. Carmen has been recognized for her excellence in public service, coupled with her commitment to equity, diversity and inclusion. She is a recipient of the Working Mother Media National Security Annual Legacy Award, the Meritorious Presidential Rank Award, National Intelligence Superior Service Medal and the CIA Director's Award. She is a Board member of Enterprise Community Partners, whose mission is to make home and community places of pride, power and belonging, and platforms for resilience and upward mobility for all.

Arthur L. Money

Member

Arthur L. Money (NAE) has more than 60 years of management and engineering experience with the defense electronics industry and intelligence community. He specialized in the design and development of intelligence collection, analysis capabilities and airborne tactical reconnaissance systems. Throughout his career, Mr. Money has been recognized for his vision, leadership, and commitment to excellence. After 33 years in electronic defense industry and Senate confirmation, Mr. Money in 1996 became the Assistant Secretary of the Air Force for Research, Development and Acquisition, (ASAF AQ). In 1998 Mr. Money became The Assistant Secretary of Defense for Command, Control, Communications and Intelligence (ASD C3I). Since April 2001 when Mr. Money left the Pentagon, he has become a member and chairman of various USG advisory boards, panels, and commissions. He is also a member of board of directors of several US public companies, a member of the board of directors of several US private companies, and also a member of several US company advisory boards. Before going to the Pentagon in 1995, he was President of ESL Inc., a subsidiary of TRW from January 1990 to December 1994, prior to its consolidation with TRW's Avionics and Surveillance Group. Mr. Money then became Vice President and Deputy General Manager for the TRW Avionics and Surveillance Group (January 1995 to January 1996). Before ESL, in 1972 Mr. Money spent 10 years at Lockheed Missiles and Space Company. Mr. Money was elected to the National Academy of Engineering in 2013. He is a recipient of numerous awards, including: 29th Annual William Oliver Baker Award, May 11, 2012; Fisher-Hopper Renaissance CIO Award, November 11, 2009; NGA Medallion for Excellence, June 2006; Intelligence Community Seal Medallion, April 2001; Defense Intelligence Agency Director's Award, March 2001; National Imagery and Mapping Agency Medallion for Excellence, March 2001; Distinguished Public Service Award to the Department of Defense (Bronze Palm), January 2001; Distinguished Public Service Award to the National Reconnaissance Office, January 2001; Distinguished Public Service Award to the Department of Defense, March 2000. Mr. Money received his M.S. in Mechanical Engineering from the University of Santa Clara in 1970; B.S. in Mechanical Engineering from the San Jose State University in 1965.

Michelle Rozo

Member

Michelle Rozo is Vice President of Technology at In-Q-Tel, a non-profit strategic investor that accelerates the development and delivery of cutting-edge technologies to enhance the national security of the United States. She is also currently serving as Vice Chair of the National Security Commission on Emerging Biotechnology, which was established by the National Defense Authorization Act for Fiscal Year 2022 to review advances in emerging biotechnology and related technologies and make recommendations for action by Congress and the federal government. She was previously Director of Technology and National Security at the U.S. National Security Council, and the Principal Director for Biotechnology within the Office of the Under Secretary of Defense for Research & Engineering in the Department of Defense. Dr. Rozo also served as a Senior National Security Advisor for Cooperative Threat Reduction at the Department of State, and as an American Association for the Advancement of Science (AAAS) fellow in the office of Senator Bob Casey. Dr. Rozo is a molecular biologist by training and studied severe infectious diseases as a staff scientist with the Naval Medical Research Center in Fort Detrick, Maryland. She holds a Ph.D. in Biology from the Cell, Molecular, Developmental Biology and Biophysics Program at the Johns Hopkins University and a B.A. in Biology from Northwestern University.

Angela E. Stent

Member

Angela Stent is Director Emerita and Senior Adviser to the Center for Eurasian, Russian and East European Studies and Professor Emerita of Government and Foreign Service at Georgetown University. She is also a Senior Nonresident Fellow at the Brookings Institution and co-chairs its Hewett Forum on Post-Soviet Affairs. From 2004-2006 she served as National Intelligence Officer for Russia and Eurasia at the National Intelligence Council. From 1999 to 2001, she served in the Office of Policy Planning at the U.S. Department of State. Stent's primary research focus is Russian foreign policy, with special emphasis on the triangular U.S.-Europe-Russia relationship. Her publications include: *From Embargo to Ostpolitik: The Political Economy of West German-Soviet Relations, 1955-1980* (Cambridge University Press, 1981); *Russia and Germany Reborn: Unification, The Soviet Collapse and The New Europe* (Princeton University Press, 1999); *The Limits of Partnership: US-Russian Relations in the Twenty-First Century* (Princeton University Press, 2014), for which she won the American Academy of Diplomacy's Douglas Dillon prize for the best book on the practice of American Diplomacy. Her latest book is *Putin's World: Russia Against the West and With the Rest* (Twelve Books, 2019) for which she won the Fletcher School of Law and Diplomacy's prize for the best book on U.S-Russian Relations. She was a member of the senior advisory panel for NATO's Supreme Allied Commander in Europe for Admiral James Stavridis and General Philip Breedlove. She is a member of the Council on Foreign Relations. She is a contributing editor to *Survival* and is on the editorial boards of the *Journal of Cold War Studies* and *Post-Soviet Affairs*. Dr. Stent received her B.A. from Cambridge University, her MSc. with distinction from the London School of Economics and Political Science and her M.A. and PhD. from Harvard University.