

IGCC Summer Training Workshop on the Relationship between National Security and Technology in China

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Speaker biographies



Richard A. BITZINGER is a Senior Fellow with the Military Transformations Program at the S. Rajaratnam School of International Studies, where his work focuses on security and defense issues relating to the Asia-Pacific region, including military modernization and force transformation, regional defense industries and local armaments production, and weapons proliferation. Mr. Bitzinger has written several monographs and book chapters, and his articles have appeared in such journals as *International Security*, *Orbis*, *China Quarterly*, and *Survival*. He is the author of *Towards a Brave New Arms Industry?* (Oxford University Press, 2003), "Come the Revolution: Transforming the Asia-Pacific's Militaries," *Naval War College Review* (Fall 2005), *Transforming the U.S. Military: Implications for the Asia-Pacific* (ASPI, December 2006), and "Military Modernization in the Asia-Pacific: Assessing New Capabilities," *Asia's Rising Power* (NBR, 2010). He is also the editor of *The Modern Defence Industry: Political, Economic and Technological Issues* (Praeger, 2009). Mr. Bitzinger was previously an Associate Professor with the Asia-Pacific Center for Security Studies (APCSS), Honolulu, Hawaii, and has also worked for the RAND Corporation, the Center for Strategic and Budgetary Affairs, and the U.S. Government. In 1999-2000, he was a Senior Fellow with the Atlantic Council of the United States. He holds a Masters degree from the Monterey Institute of International Affairs and has pursued additional postgraduate studies at the University of California, Los Angeles.

Michael S. CHASE is an Associate Professor in the Warfare Analysis and Research Department at the U.S. Naval War College in Newport, Rhode Island. Professor Chase also serves as director of the Mahan Scholars Research Group, a faculty-student advanced research project that focuses on strategic level issues including deterrence, escalation, and nuclear, space, and cyber policy. Prior to joining the faculty at the War College he was a research analyst with the RAND Corporation and Defense Group Inc.'s Center for Intelligence Research and Analysis. Professor Chase's main research areas include Chinese military modernization, especially nuclear policy and strategy and space and counter-space capabilities, Chinese foreign and security policy, and U.S. policy in the Asia-Pacific region. He is the author of a number of publications on China and Asia-Pacific security issues, including the book, *Taiwan's Security Policy: External Threats and Domestic Politics*, and articles in publications such as *Survival*, *China Brief*, *Proceedings*, *Joint Force Quarterly*, *Asian Security*, *Asian Survey*, and the *Journal of Strategic Studies*.



Tai Ming CHEUNG is Director of the UC Institute on Global Conflict and Cooperation (IGCC). Cheung also manages IGCC's Northeast Asia Cooperation Dialogue (NEACD), a Track Two program that brings together senior foreign ministry and defense officials as well as academics from the United States, China, Japan, South Korea, North Korea, and Russia for informed discussions on regional security issues. He also oversees the "The Future of Multilateral

Security Cooperation in Northeast Asia: Exploring Regional Security Architecture and the Economics-Security Nexus," a research project in collaboration with the University of Tokyo and Yonsei University funded by the John D. and Catherine T. MacArthur Foundation as well as the Institute's Project on the Study of Innovation and Technology in China (SITC). Cheung serves as an associate adjunct professor at the School of International Relations and Pacific Studies at UC San Diego and is a long-time analyst of Chinese and East Asian defense and national security affairs. Cheung was based in Asia from the mid-1980s to 2002 covering political, economic and strategic developments in greater China. He was also a journalist and political and business risk consultant in northeast Asia. Cheung received his Ph.D. from the War Studies Department at King's College, London University in 2006. His latest book, *Fortifying China: The Struggle to Build a Modern Defense Economy*, was published by Cornell University Press in 2009.



Major Doug CREVISTON is a Research Fellow at the Center for Strategic Intelligence Research, School of Science and Technology, National Defense Intelligence College. He came to NDIC from Edwards AFB, CA, where he served as Experimental Test Pilot on the F-16 and Assistant Director of Operations for the 416th Flight Test Squadron. A senior pilot with 2,000 hours in 35 different aircraft, he has two combat tours and 700 hours of combat flying in Iraq. A 1997 graduate of the US Air Force Academy, Maj. Creviston was a National Science Foundation Fellow at MIT's Gas Turbine Lab, where his research into rapid prototyping of engine exhaust nozzles led to a Master of Science degree in Aeronautics and Astronautics in 1999. He conducted operations in the F-15E while stationed at RAF Lakenheath before serving as an instructor at the F-15E Formal Training Unit. Following completion of the USAF Test Pilot School, he engaged in planning, execution, and reporting of over 30 F-16 test programs, to include avionics, weapons, sensor, and propulsion system testing.



Andrew ERICKSON is an Associate Professor in the Strategic Research Department at the U.S. Naval War College and a core founding member of the department's China Maritime Studies Institute (CMSI). He is an Associate in Research at Harvard University's John King Fairbank Center for Chinese Studies (2008-). Erickson also serves as an expert contributor to the *Wall Street Journal's* China Real Time Report (中国事实报). During academic year 2010-11, he was a Fellow in the Princeton-Harvard China and the World Program in residence at Harvard's Fairbank Center. From 2008-11, he was a Fellow in the National Committee on U.S.-China Relations' Public Intellectuals Program, and served as a scholar escort on a five-Member Congressional trip to Beijing, Qingdao, Chengdu, and Shanghai. He has taught courses at the Naval War College and Yonsei University, and has lectured extensively at academic and government institutions throughout the United States and Asia. Erickson previously worked for Science Applications International Corporation (SAIC) as a Chinese translator and technical analyst. He has also worked at the U.S. Embassy in Beijing, the U.S. Consulate in Hong Kong, the U.S. Senate, and the White House. Proficient in Mandarin Chinese and Japanese, he has traveled extensively in Asia and has lived in China, Japan, and Korea. Erickson received his Ph.D. and M.A. in international relations and comparative politics from Princeton University and graduated *magna cum laude* from Amherst College with a B.A. in history and political science. His research, which focuses on Asia-Pacific defense, foreign policy, and technology issues, has been published widely in such journals as *Asian Security*, *Journal of Strategic Studies*, *Orbis*, *The American Interest*, and *Joint Force Quarterly*. Erickson is coeditor of, and a contributor to, the Naval Institute Press book series, "Studies in

Chinese Maritime Development,” comprising *China’s Strategy for the Near Seas* (forthcoming), *Chinese Aerospace Power* (2011), *China, the U.S., and 21st Century Sea Power* (2010), *China Goes to Sea* (2009), *China’s Energy Strategy* (2008), and *China’s Future Nuclear Submarine Force* (2007); as well as the Naval War College Newport Paper *China’s Nuclear Force Modernization*. He is also co-founder of *China SignPost™* 洞察中国 (www.chinasignpost.com), a research newsletter and web portal that covers key developments in China, and its natural resource, trade, and security issues. Links to this, and his other publications, can be found at www.andrewerickson.com.



Jon LINDSAY is a postdoctoral scholar with the University of California Institute on Global Conflict and Cooperation (IGCC). He received his Ph.D. in political science from the Massachusetts Institute of Technology, M.S. in computer science and B.S. in cognitive science from Stanford University, and has served as an intelligence officer in the U.S. Navy. His research focuses broadly on the problems of knowledge in complex systems, with particular emphasis on the role of information technology in international security. Specific research topics include the strategic problems posed by emerging cyberwarfare capabilities, the capacity for "user innovation" as a component of military power, and the operational challenges of irregular warfare under conditions of high technology and complexity. His dissertation, "Information Friction: Information Technology and Military Performance," draws on fieldwork with a U.S. special operations unit in Iraq and historical casework to explain the social conditions under which uncertainty-reducing technologies can themselves generate additional uncertainty. He is presently working to broaden the information friction framework in order to understand how emerging information technologies affect Chinese military power.



Hanlu LU is a Research Analyst for the IGCC Study of Innovation and Technology in China (SITC). She is responsible for conducting research on issues related to the contemporary Chinese science and technology policy, with a special emphasis on national security, trade and political economy. Ms. Lu also manages SITC’s Chinese-language resources and databases and provides work direction to SITC’s graduate student research team. She holds a Master’s degree in Pacific and International Affairs (MPIA) from the University of California, San Diego.



Thomas G. MAHNKEN is currently Jerome E. Levy Chair of Economic Geography and National Security at the U.S. Naval War College and a Visiting Scholar at the Philip Merrill Center for Strategic Studies at The Johns Hopkins University’s Paul H. Nitze School of Advanced International Studies (SAIS). Dr. Mahnken served as the Deputy Assistant Secretary of Defense for Policy Planning from 2006-2009. In that capacity, he was responsible for the Department’s major strategic planning functions, including the preparation of guidance for war plans and the development of the defense planning scenarios. He was the primary author of the 2008 *National Defense Strategy* and contributing author of the 2006 *Quadrennial Defense Review*. He spearheaded the Secretary of Defense’s Minerva Research Initiative, which will provide \$100 million in grants to universities to conduct basic research in the social sciences, and led an interagency effort to establish, for the first time in five decades, a National Security Council-run interagency policy planning body

Prior to joining the Defense Department, he served as a Professor of Strategy at the U.S. Naval War College. From 2004 to 2006 he was a Visiting Fellow at the Merrill Center at SAIS. During the 2003-04 academic year he served as the Acting Director of the SAIS Strategic Studies Program. His areas of primary expertise are strategy, intelligence, and special operations forces.

Dr. Mahnken has held positions in both the government and the private sector. He served as Staff Director of the 2010 Quadrennial Defense Review Independent Panel's Force Structure and Personnel Sub-Panel. He served on the staff of the Commission on the Intelligence Capabilities of the United States Regarding Weapons of Mass Destruction. He served in the Defense Department's Office of Net Assessment, where he conducted research into the emerging revolution in military affairs. He also served as a member of the Gulf War Air Power Survey, commissioned by the Secretary of the Air Force to examine the performance of U.S. forces during the war with Iraq. Prior to that, he served as an analyst in the Non-Proliferation Directorate of the Office of the Secretary of Defense (OSD), where he was responsible for enforcing U.S. missile proliferation policy.



Maggie MARCUM is recognized as a subject matter expert on defense industrial programs in support of research, development, and acquisition (RDA) strategies for weapons development—specializing in China. Ms. Marcum served as CIA's lead all-source analyst on global defense S&T, having developed and led a program of analysis for RDA processes. She created and chaired the National Intelligence Council Working Group on RDA and later chaired the interagency S&T Intelligence Committee (STIC), overseeing production of assessments on worldwide S&T trends. She has led research efforts with international and national experts, providing a forum for collaboration on S&T advances. Ms. Marcum recently retired from the CIA where she produced long-term studies on foreign innovation and systems supporting technology and weapons programs. Ms. Marcum is manager of the newly formed International Defense Emerging Technology Network (iDETnet), an international collaborative forum whose mission is to promote and provide independent analysis of disruptive and emerging technologies with defense and security-related implications.



Alice Lyman MILLER is a research fellow at the Hoover Institution and visiting associate professor in the Department of Political Science at Stanford. She is also a senior lecturer in the Department of National Security Affairs at the U.S. Naval Postgraduate School in Monterey, California.

Miller first joined the Hoover Institution in 1999 as a visiting fellow. Prior to coming to Stanford, Miller taught at the School of Advanced International Studies (SAIS) at Johns Hopkins University in Washington, D.C. From 1980–90, she was a professorial lecturer in Chinese history and politics at SAIS. From 1990–2000, she was associate professor of China Studies and, for most of that period, director of the China Studies Program at SAIS. She also held a joint appointment as adjunct associate professor in the Department of Political Science at Johns Hopkins from 1996–99, and as adjunct lecturer in the Department of Government, Georgetown University from 1996–98. From 1974–90, Miller worked in the Central Intelligence Agency as a senior analyst in Chinese foreign policy and domestic politics, and branch and division chief, supervising analysis on China, North Korea,

Indochina, and Soviet policy in East Asia. Miller has lived and worked in Taiwan, Japan, and the PRC, and she speaks Mandarin Chinese.

Miller's research focuses on foreign policy and domestic politics issues in China and on the international relations of East Asia. She is currently working as editor and contributor to the [China Leadership Monitor](#), which, now in its fifth year, offers authoritative assessments of trends in Chinese leadership politics and policy to American policymakers and the general public. Additionally, she is working on two books. One, co-authored with SAIS Professor Richard Wich, surveys the international relation of Asia during the Cold War. The second, tentatively entitled *The Evolution of Chinese Grand Strategy, 1550–Present*, brings a historical perspective to bear on China's rising power in the contemporary international order.

Miller has published extensively on policy issues dealing with China, including several in the [Hoover Digest](#). Others include "The Foreign Policy Outlook of China's Third Generation' Elite, with Liu Xiaohong, in *The Making of Chinese Foreign and Security Policy in the Era of Reform* (David M. Lampton, ed., University of California Press, 2001), "The Late Imperial State," in festschrift for Franz Michael, *The Modern Chinese State* (David Shambaugh, ed., Cambridge University Press, 2000), and "Is China Unstable?" in *Is China Unstable?* (David Shambaugh, ed., M.E. Sharpe, 2000). She is the author of *Science and Dissent in Post-Mao China: The Politics of Knowledge* (University of Washington Press, 1996).



Barry NAUGHTON is an authority on the Chinese economy, with an emphasis on issues relating to industry, trade, finance, and China's transition to a market economy. Recent research focuses on regional economic growth in the People's Republic of China and the relationship between foreign trade and investment and regional growth. He is also completing a general textbook on the Chinese economy. Recently completed projects have focused on Chinese trade and technology, in particular, the relationship between the development of the electronics industry in China, Taiwan and Hong Kong, and the growth of trade and investment among those economies. His book, *Growing Out of the Plan: Chinese Economic Reform, 1978-1993*, which was published in 1995, is a comprehensive study of China's development from a planned to a market economy that traces the distinctive strategy of transition followed by China, as well as China's superior growth performance. It received the Ohira Memorial Prize in 1996. Naughton is the author of numerous articles on the Chinese economy and is editor or co-editor of three other books: *Reforming Asian Socialism: The Growth of Market Institutions*, *Urban Spaces in Contemporary China*, and *The China Circle: Economics and Technology in the PRC, Taiwan and Hong Kong*. Naughton joined IR/PS in 1988 and was named to the Sokwanlok Chair in Chinese International Affairs in 1998.



Richard P. SUTTMEIER is Professor of Political Science, Emeritus, at the University of Oregon. He has written widely on science and technology development issues in China. His current research includes a study of China's intellectual property strategy and an examination of the changing nature of China's innovation system. His interests in the role of science and technology in China-US relations, the role of technical standards in China's technology policy, and Chinese approaches to the management of technological risks have led to the following recent publications: "From Cold War Science Diplomacy to Partnering in a Networked World: 30 Years of Sino-US Relations in Science and Technology", *Journal of Science and Technology Policy in China*, Vol. 1, No. 1, 2010; "The Sixth Modernization?"

China, Safety, and the Management of Risks.” *Asia Policy* 6 (June, 2008); “State, Self-Organization, and Identity in the Building of Sin-US Cooperation in Science and Technology.” *Asian Perspective* 32, 1, 2008; and *Standards, Stakeholders, and Innovation: China’s Evolving Role in the Global Knowledge Economy*. (with Scott Kennedy and Jun Su). National Bureau of Asian Research. September, 2008. These and other recent papers are available at <http://china-us.uoregon.edu/papers.php>.