

IGCC 2013 Summer Training Workshop on the Relationship Between National Security and Technology in China

SPEAKERS



Tai Ming CHEUNG is director of the University of California 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, defense officials, and 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 project on the Study of Innovation and Technology in China (SITC).

Cheung is also an associate professor at the School of International Relations and Pacific Studies at UC San Diego and a long-time analyst of Chinese and East Asian defense and national security affairs. He 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 PhD from the War Studies Department at King's College, London University in 2006. His book, *Fortifying China: The Struggle to Build a Modern Defense Economy*, was published by Cornell University Press in 2009.



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 since 2008, and serves as an expert contributor to *The Wall Street Journal's* "China Real Time Report" (中国事实报). During the 2010-11 academic year he was a fellow in the Princeton-Harvard China and the World Program 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 at 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 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 PhD and MA degrees in international relations and comparative

politics from Princeton University and graduated *magna cum laude* from Amherst College with a BA 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 the site and his other publications can be found at www.andrewerickson.com.



David FINKELSTEIN is a vice president of CNA and the director of CNA’s China program (CNA China Studies Division), one of the nation’s largest analytic groups focused on Chinese and Asian regional security affairs.

A retired regular U.S. army officer, Finkelstein is a graduate of West Point, the Army Command and General Staff College, the U.S. Army War College, the Foreign Area Officer course at the JFK Center for Military Assistance and Unconventional Warfare, and the U.S. Army Airborne School. While on active duty, he held various command and staff positions in tactical field units to include service with the 86th and 40th Signal Battalions of the 11th Signal Brigade, the U.S. Army Communications Command, and with the United Nations Command Joint Security Force in Panmunjom, Korea, an infantry battalion in the Demilitarized Zone. In the Pentagon, he served as assistant defense intelligence officer for East Asia for the Secretary of Defense, and as director for Asian analyses on the Joint Staff. He also served on the faculty at West Point, where he taught Chinese history.

A long-time student of Chinese and Asian security affairs, Finkelstein writes extensively on a wide range of issues. His historical study, *From Abandonment to Salvation: Washington’s Taiwan Dilemma, 1949-50* (George Mason University Press, 1993), was hailed in *Presidential Studies Quarterly* as “blazing a new trail.” Other works include co-edited volumes such as *Chinese Warfighting: The PLA Experience Since 1949*; *China’s Revolution in Doctrinal Affairs: Developments in the Operational Art of the People’s Liberation Army*; *Civil-Military Relations in Today’s China: Swimming in a New Sea*, and *China’s Leadership in the 21st Century: The Rise of the Fourth Generation*.

Finkelstein received his PhD in Chinese history from Princeton University and studied Mandarin at Nankai University in Tianjin. Active in many academic and policy-oriented organizations, he serves on the Advisory Board of *Issues and Studies* (Taipei), is a senior advisor to the *China and Eurasia Forum Quarterly* (Washington, D.C. and Stockholm), and a member of the National Committee for U.S.-China Relations. He regularly leads seminars at the U.S. Department of State’s Foreign Service Institute, the U.S. Army War College, and the JFK School of Government at Harvard. He served as a consultant and contributing author to the most recent edition of the *National Geographic Atlas of China*.



Jon R. LINDSAY is an assistant research scientist at the University of California Institute on Global Conflict and Cooperation (IGCC) and assistant adjunct professor at the School of International Relations and Pacific Studies (IR/PS) at UC San Diego, where he teaches graduate courses in the Security of the Asia Pacific curriculum. His research examines the impact of the information revolution on international security and has appeared in *International Security*, *Security Studies*, *Journal of Strategic Studies*, and *Technology and Culture*. Current projects include an edited volume on China and cybersecurity featuring interdisciplinary and international perspectives and a Department of Defense Minerva Initiative on cross-domain deterrence. He holds a PhD in political science from the Massachusetts Institute of Technology, an MS in computer science and BS in symbolic systems from Stanford University, and he has served as an officer in the U.S. Navy with assignments in Europe, Latin America, and the Middle East.



Hanlu LU is a research analyst for the University of California Institute on Global Conflict and Cooperation's project on the Study of Innovation and Technology in China (SITC). She is responsible for conducting research on issues related to contemporary Chinese science and technology policy with a special emphasis on national security, trade, and political economy. 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 of Pacific and International Affairs from the School of International Relations and Pacific Studies (IR/PS) at UC San Diego.



Thomas G. MAHNKEN is the 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 Paul H. Nitze School of Advanced International Studies (SAIS) at Johns Hopkins University. He was the Deputy Assistant Secretary of Defense for Policy Planning from 2006 to 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, 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, Mahnken 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.

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, and 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. She served as the 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. Marcum recently retired from the CIA, where she produced long-term studies on foreign innovation and systems supporting technology and weapons programs. She 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 University. 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. 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 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, with Richard Wich, surveys the international relations 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 articles in the *Hoover Digest*. Other publications 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 *The Modern Chinese State* (David Shambaugh, ed., Cambridge, 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 the Sokwanlok Chair in Chinese International Affairs at the School of International Relations and Pacific Studies at UC San Diego. He 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. His 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. 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.

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*. 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.



Kevin POLLPETER is the deputy director of the University of California Institute on Global Conflict and Cooperation's project on the Study of Innovation and Technology in China (SITC). Prior to working at IGCC, Pollpeter was the deputy director of the East Asia Program at Defense Group Inc. (DGI), where he managed a group of more than 20 China analysts. Before DGI, he was a researcher at RAND. He is widely published on China national security issues, with a focus on China's space program and information warfare issues. His space-related publications include a monograph entitled *Building for the Future: China's Progress in Space Technology During the Tenth Five-year Plan and the U.S. Response* and a book chapter entitled "The Chinese Vision of Space Military Operations." He has also written frequently for *China Brief*. Pollpeter has coauthored many works, including *Dangerous Thresholds: Managing Escalation in the 21st Century* and *Entering the Dragon's Lair: Chinese Anti-access Strategies and Their Implications for the United States*. A Chinese linguist, he holds an MA in international policy studies from the Monterey Institute of International Studies.



Tammy Byrne ZIEGLER studied Chinese language and literature and linguistics at the University of Minnesota-Twin Cities and Nankai University, Tianjin, China. For eleven years she has worked at East View Information Services in Minneapolis, Minnesota, which serves the U.S. government, defense contractors, foreign governments and think tanks by providing hard-to-source licensed content and value-add production services.

Ziegler works closely with many U.S., Canadian, and European government agencies and researchers to evaluate and fulfill their needs for open source information from Eastern Europe, the Middle East, and Asia. Her recent major projects include acquisition and delivery of several million off-platform Chinese science and technology articles for a Big Data initiative for the U.S. government.