

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

Course Outline

**La Jolla, California
June 20-25, 2011**

Sunday, June 19

6:00 pm Opening Dinner at the Loft at the Price Center
Please meet in front of the Village at Torrey Pines building at 5:40 pm to walk to dinner as a group

Monday, June 20

Day One: State of the Field, Sources, Methodological Approaches; the Historical Relationship between Security and Technology in China; and Chinese Grand Strategic Thinking on Security, Technology and Innovation

Location: Dugout Room at Rimac

8:00–8:15 am	Welcome & Overview of Course Program, Goals & Objectives <i>Tai Ming Cheung</i>
8:15–9:15 am	Examining the State of the Field in Chinese Security and Technology Studies: Sources, Debates and Insights <i>Tai Ming Cheung</i>
9:15-10:15 am	The Availability and Use of Chinese Language Databases <i>Hanlu Lu</i>
10:30 am–12:30 pm	Understanding Military Innovation: Chinese Defense S&T in Historical and Theoretical Perspective <i>Tom Mahnken</i>
12:30-1:30 pm	Lunch
1:30–3:15 pm	The Leadership and Organizational Structures of the Chinese Civilian, Defense S&T and PLA Systems <i>Alice Miller</i>
3:30-5:30 pm	Can China’s Political System Sustain its Peaceful Rise? <i>Susan Shirk</i>

Tuesday, June 21

Day Two: The Evolution of the Chinese Defense Economy From the 1950s to the Present and Future Trends

Location: Dugout Room at Rimac

- 8:00-8:30 am Review and Discussion
- 8:45-10:15 am S&T in Chinese Thinking on Security and Development: Techno-Nationalism and S&T Innovation as Seen Through the 2006-2020 Medium & Long-Term S&T Plan
Tai Ming Cheung
- 10.30 am–12.30 pm The Development of the Defense Economy From Mao Zedong to the Present Day
Tai Ming Cheung
- 12:30-1:30 pm Lunch
- 1:30–3:45 pm The Evolution and Present Nature of the Chinese Economy
Barry Naughton
- 4:00–5:30 pm The Chinese Embrace of Civil-Military Integration
Brian Lafferty

Wednesday, June 22

Day Three: The Nature and Activities of the Chinese S&T System

Location: Dugout Room at Rimac

- 8:00-8:30 am Review and Discussion
- 8:45-10:15 am Chinese Ways of Research and Innovation
Richard P. Suttmeier
- 10:30 am-12:30 pm The Chinese Defense Innovation System
Kathleen Walsh
- 12:30-1:30 pm Lunch
- 1:30-3:00 pm Assessing Major Chinese S&T Projects: 863, Mega-Projects and Other Important Strategic Projects
Tai Ming Cheung
- 3:15-4:45 pm The Role and Importance of the Chinese Academy of Sciences and its Knowledge Innovation Program
Richard P. Suttmeier
- 5:00 – 6:30 pm Methodological Perspectives: Relational Network Analysis
David Meyer

Thursday, June 23**Day Four: External Dimensions and Doctrinal Drivers***Location: Dugout Room at Rimac*

- 8:00-8:30 am Review and Discussion
- 8:45-10:45 am Evolving PLA Doctrine, Strategy and Operational Concepts and the Influence on Defense S&T Transformation: Fighting High-Technology Wars in the Information Age
David Finkelstein
- 11:00 am-1:00 pm The Technology Trade and Security Relationship Between Europe and China
Oliver Bräuner and Bernt Berger
- 1:00-2:00 pm Lunch
- 2:00-4:00 pm Comparing Asian and Global Defense Industry Trends and the Chinese Defense Industry
Richard Bitzinger
- 4:15-5:45 pm China's Search for External Sources of Defense Technology and Know-How: The Rise of Chinese-Russian Defense Technological and Industrial Cooperation
Tai Ming Cheung

Friday, June 24**Day Five: Case Studies and the U.S. Responses***Location: Dugout Room at Rimac*

- 8:00-8:30 am Review and Discussion
- 8:45-10:45 am Comparing Chinese and Western Aero-Engine Technological Capabilities: How Far is the Gap and What Are the Prospects for China to Catch Up?
Maj. Doug Creviston, USAF
- 11:00 am-1:00 pm Technological Innovation in the Chinese Space Industry and its National Security Implications
Kevin Pollpeter
- 1:00-2:00 pm Lunch
- 2:00-3:45 pm Chinese Approaches to Cybersecurity and Information Warfare
Jon Lindsay
- 4:00-5:45 pm U.S. Responses to Dealing with China's Military Technological Rise
Tom Mahnken

Saturday, June 25

Day Six: Assessing the Chinese Defense Economy's Transition from Imitation to Innovation and Course Review

Location: Social Sciences Building, Room 104

8:00-8:30 am Review and Discussion

8:45-10:15 am The Chinese Defense Economy's Long March from Imitation to
Innovation
Tai Ming Cheung

10:30 am-12:00 pm Course Review –Panel Discussion