



## **IGCC 2013 Summer Training Workshop on the Relationship between National Security and Technology in China**

**La Jolla, California  
University of California, San Diego Campus  
July 21-August 2, 2013**

This course examines the relationship between national security, technology, innovation, and China's rise as a world power. Of central interest is how China is mobilizing and applying its economic, political, strategic, corporate, financial, intellectual, and scientific capabilities in conjunction with leveraging external resources to achieve its grand ambition of catching up technologically with the world's advanced powers.

### **AGENDA for WEEK 1**

**All meetings will be held in the Multipurpose Room 2 at the Rady School of Management unless otherwise specified.**

#### **Sunday, July 21**

6:00-8:30 pm

We invite you to a welcome reception and dinner at The Village at Torrey Pines, 15<sup>th</sup> floor Room A.

#### **Monday, July 22**

#### **State of the Field, Sources, Methodological Approaches, and Military Innovation**

8:00-8:45 am

Welcome & Overview of Course Program, Goals & Objectives, and Participant Introductions  
*Tai Ming Cheung*

8:45-10:15 am

Examining the State of the Field in Chinese Security and Technology Studies: Sources, Debates and Insights  
*Tai Ming Cheung*

10:15-10:30 am

Break

10:30-11:30 am

The Availability and Use of Chinese Language Databases  
*Hanlu Lu and Tammy Byrne Ziegler*

11:30-1:00 pm	Lunch
1:00- 2:30 pm	The Study of Defense Innovation: The State of the Field <i>Tai Ming Cheung</i>
2:30-2:45 pm	Break
2:45-4:45 pm	Understanding Military Innovation <i>Tom Mahnken</i>
6:00 pm	Shuttle to Dinner (Osteria Romantica)

**Tuesday, July 23**

**Grand Strategic Thinking, Evolution of the Chinese Defense Economy, and Domestic Political and Economic Perspectives**

8:00-8:30 am	Review and Discussion
8:30-10:00 am	The Place of S&T in Chinese Thinking on Security and Development: Techno-Nationalism and Chinese Approaches to S&T Innovation <i>Tai Ming Cheung</i>
10:00-10:15 am	Break
10:15-12:00 pm	The Development of the Defense Economy From Mao Zedong to the late 1990s <i>Tai Ming Cheung</i>
12:00-1:00 pm	Lunch
1:00-3:00 pm	The Leadership and Organizational Structures of the Chinese Civilian, Defense S&T and PLA Systems <i>Alice Miller</i>
3:00-3:15 pm	Break
3:15-5:15 pm	The Evolution and Present Nature of the Chinese Economy <i>Barry Naughton</i>
5:30 pm	<i>Jeopardy!</i> at Porter's Pub

**Wednesday, July 24**

**Nature and Activities of Research & Development in the Chinese S&T System**

8:00-8:30 am	Review and Discussion
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8:30-10:30 am	The Defense Research, Development, and Acquisition Process <i>Maggie Marcum</i>
10:30-10:45 am	Break
10:45 am-12:30 pm	The Importance of Foreign Technology in China's Defense S&T Development: Case Study of China-Russia Defense S&T Relations Between the 1990s and Present-Day <i>Tai Ming Cheung</i>
12:30-1:30 pm	Lunch
1:30-3:00 pm	The Chinese Civilian and Defense S&T Research and Development Systems and the 863 and other Major Chinese S&T Development Programs <i>Hanlu Lu and Tai Ming Cheung</i>
3:00-3:15 pm	Break
3:15-5:00 pm	Defining RDA Interactive Session <i>Maggie Marcum</i>
6:00 pm	Shuttle to Dinner (Spicy City)

**Thursday, July 25**

**Doctrinal Drivers, Role of Conglomerates, Civil-Military Integration, and Case Study of Aero-Engine Development**

8:00-8:30 am	Review and Discussion
8:30-10:00 am	Evolving PLA Doctrine, Strategy and Operational Concepts and the Influence on Defense S&T Transformation: Fighting High-Technology Wars in the Information Age Chinese Threat Perceptions <i>David Finkelstein</i>
10:00-10:15 am	Break
10:15-12:15 pm	The Transformation of China's Defense Conglomerates <i>Tai Ming Cheung and Kevin Pollpeter</i>
12:15-1:15 pm	Lunch

1:15-3:15 pm	The Chinese Embrace of Civil-Military Integration <i>Kevin Pollpeter</i>
3:15-3:30 pm	Break
3:30-5:00 pm	Comparing Chinese and Western Aero-Engine Technological Capabilities: How Far is the Gap and What Are the Prospects for China to Catch Up? <i>Andrew Erickson, NWC</i>
6:00 pm	Shuttle to Dinner (Casa Guadalajara)

**Friday, July 26**  
**Case Studies**

8:00-8:30 am	Review and Discussion
8:30-10:30 am	Technological Innovation in the Chinese Space Industry <i>Kevin Pollpeter</i>
10:30-10:45 am	Break
10:45-12:45 pm	How China's Aviation Sector Organizes and Undertakes Research, Development, and Production: The Roles and Relationships among Scientists, Engineers, and Producers <i>Andrew Erickson</i>
12:45-1:45 pm	Lunch
1:45-3:45 pm	China and Cybersecurity <i>Jon Lindsay</i>
5:00 pm	(Optional) No-host happy hour (Bella Vista)

**Saturday, July 27**  
**Assessing the Chinese Defense Economy's Transition from Imitation to Innovation  
and Policy Implications**

8:30-9:00am	Continental breakfast
9:00-10:00 am	China's Defense Economy in the Early 2010s: Strengths, Weaknesses, and a Transitional Quagmire? <i>Tai Ming Cheung</i>
10:00-12:00 pm	Policy Implications of Chinese Defense Modernization, Course Wrap-Up, and Course Evaluations