THE 13TH PIIC BEIJING SEMINAR ON INTERNATIONAL SECURITY

OCTOBER 31 - NOVEMBER 3, 2012
BEIJING, CHINA

CO-SPONSORS

Institute of Applied Physics and Computational Mathematics (IAPCM), China
International School on Disarmament and Research on Conflicts (ISODARCO), Italy
China Institutes of Contemporary International Relations (CICIR), China
Chinese People’s Association for Peace and Disarmament (CPAPD), China
Nuclear Threat Initiative (NTI), USA

ORGANIZED BY

Program for Science and National Security Studies (PSNSS)
About the PIIC Seminar

This year represents the 13th convening of the PIIC Seminar on International Security in China. Meeting every other year since 1988, this seminar series brings together experts from around the world to discuss critical security issues at the interface between policy and science. Since its inception, experts from a wide variety of backgrounds have contributed insights, enhanced mutual understanding and increased Chinese scholars’ awareness of global security issues.

As in previous seminars, the goal of the 2012 seminar is to provide a forum for experts to exchange their views and engage in discussions of key international security issues. The seminar creates an important opportunity for participants to introduce new concepts and mechanisms that enhance global stability and security for the coming decades.

The seminar is organized by the Program for Science and National Security Studies within the Institute of Applied Physics and Computational Mathematics. It is sponsored by the Institute of Applied Physics and Computational Mathematics, the International School on Disarmament and Research on Conflicts, the China Institutes of Contemporary International Relations, the Chinese People’s Association for Peace and Disarmament, and the Nuclear Threat Initiative (NTI), with significant funding being provided in 2012 by NTI.
Conference Schedule

**OCTOBER 31ST, WEDNESDAY**

All Day  
**Registration**  
*Lobby of Beijing Jade Palace Hotel*

18:30-20:30  
**Buffet / Reception**  
*Gallery, 2nd Floor*

**NOVEMBER 1ST, THURSDAY**

06:30-09:00  
**Breakfast**  
*Gallery, 2nd Floor*

09:00-10:00  
**Opening Session**  
*Function Room, 2nd Floor*

**MODERATOR:** Li Hua  
Li Hua, Director of Institute of Applied Physics and Computational Mathematics (IAPCM) and Program for Science and National Security Studies (PSNSS)

Pang Sen, Director, Department of Arms Control, Ministry of Foreign Affairs, China

Ted Turner, Co-Chairman, NTI

Sam Nunn, Co-Chairman and CEO, NTI

Carlo Schaerf, President, ISODARCO

10:00-10:20  
**Tea Break**

10:20-12:20  
**Featured Speakers**  
**MODERATOR:** Cui Liru

William J. Perry, Professor, Stanford University, and former U.S. Secretary of Defense

Hu Side, Member of Academy of Engineering and former President of China Academy of Engineering Physics (CAEP)

Siegfried Hecker, Professor and Co-Director, Center for International Security and Cooperation (CISAC), Stanford University, Emeritus Director of Los Alamos National Laboratory

Paolo Cotta-Ramusino, Secretary-General, Pugwash
NOVEMBER 1ST, THURSDAY (continued)

12:20-14:20  Banquet
Banquet Hall, 3rd Floor

14:20-16:00  Plenary Session: Nuclear Disarmament and A World Free of Nuclear Weapons
MODERATOR: Joan Rohlfing
Rebecca Johnson: Preventing Nuclear Use: The Humanitarian Imperative for Nuclear Disarmament
Gu Guoliang: Cooperation and Differences between China and the United States in the Field of Arms Control and Nonproliferation
Xia Liping: China’s Nuclear Doctrine and Its Impacts on International Nuclear Disarmament
Dipankar Banerjee: India-China Nuclear CBMs and Global Nuclear Disarmament

16:00-16:20  Tea Break

16:20-18:30  MODERATOR: Zhu Rui
Masako Ikegami: The Paradox of Extended Nuclear Deterrence in the Era of Global Nuclear Disarmament
Shen Dingli: Iran’s Nuclear Gambit — Could a War Be Avoided?
Daniel Pinkston: The DPRK Nuclear Program and U.S. Extended Deterrence
Li Bin: Technical & Organizational Evidence of Nuclear Weapon Development
Zia Mian: Increasing Transparency of Nuclear-warhead and Fissile Material Stocks as a Step Toward Disarmament and Implementation of 2010 NPT Review Conference

18:30-20:30  Buffet Dinner
Gallery, 2nd Floor
The 13th PIIC Beijing Seminar on International Security

November 2nd, Friday

06:30-08:30  Breakfast  
*Gallery, 2nd Floor*

Participants can choose their morning session. The afternoon includes plenary sessions.

08:30-10:20  Verification Technology Challenges  
*Function Room, 2nd Floor*

**Moderator:** Page Stoutland

Randy Bell: Mutual Benefits of Scientific Collaboration in Verification Technology Development

Ramamurti Rajaraman: An Introduction to Technical Issues in FMCT Verification

Sue Clark: Chemical and Isotopic Signatures for Nuclear Forensics

Zhao Yonggang: Nuclear Forensics Research in China

**Nuclear Energy and the Fuel Cycle**  
*Ninghui Meeting Room, 3rd Floor*

**Moderator:** Deborah Rosenblum

Jasper Pandza: China’s Move towards a Closed Nuclear Fuel Cycle: Nuclear Safety and Security Implications

Undraa Agvaanluvsan: Multilateral Nuclear Fuel Cycle Arrangements and Cooperation in North East Asia

John Carlson: A New International Framework for Nuclear Energy

Zhu Xuhui: The Development of Nuclear Energy in China

10:20-10:40  Tea Break
NOVEMBER 2ND, FRIDAY (continued)

10:40-12:10  CTBT Verification  
*Function Room, 2nd Floor*  
**MODERATOR:** Najmuddin Shaikh  
Li Genxin: Prospects for Advancement toward the Entry into Force of the CTBT  
Benjamin Rusek: Confidence Building and the CTBT  
Lin Guojiong: On the Entry into Force of the CTBT  
David Santoro: On the Role China Can Play in Facilitating the Entry into Force of the CTBT

**Nuclear Security**  
*Ninghui Meeting Room, 3rd Floor*  
**MODERATOR:** Ramamurti Rajaraman  
Mirco Elena: Civilian Nuclear Energy: Reducing Dangers and Strengthening Peace  
Frank von Hippel: A Global Cleanout of Nuclear-weapon-usable Materials  
Hui Zhang: Strengthening China’s Nuclear Security  
Liu Daming: Issues of Chinese Nuclear Security

12:10-14:00  Buffet Lunch  
*Gallery, 2nd Floor*

14:00-16:30  Plenary Session: Strategic Stability and Security  
*Function Room, 2nd Floor*  
**MODERATOR:** Carlo Schaerf  
Michael Krepon: Space Security and Deterrence Stability  
Lora Saalman: China’s Evolution on Ballistic Missile Defense  
Yang Yi: U.S. Rebalancing and its Implications for Regional Security  
Lewis Dunn: Building a Stable and Cooperative Long-term U.S.-China Strategic Relationship  
Najmuddin Shaikh: Ballistic Missile Defense in South Asia and its Implications for Nuclear Stability  
Mallika Joseph: Nuclear Learning in South Asia
NOVEMBER 2ND, FRIDAY (continued)

16:30-16:50 Tea Break
16:50-17:30 Closing Session
  MODERATOR: Li Hua
  CLOSING REMARKS: Yang Mingjie, Vice President, CICIR
17:30-18:30 Buffet Dinner
  Gallery, 2nd Floor
18:30-21:00 Social Activities

NOVEMBER 3RD, SATURDAY

06:30-08:30 Breakfast
  Gallery, 2nd Floor
  Departures
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Institute of Applied Physics and Computational Mathematics
The Beijing Institute of Applied Physics and Computational Mathematics was founded in 1958. Its areas of study include theoretical physics, nuclear and particle physics, plasma physics, laser physics, fluid dynamics, applied mathematics, computational mathematics, computer applications, and arms control science and technology.

International School of Disarmament and Research on Conflicts
The International School of Disarmament and Research on Conflicts (ISODARCO) is a non-government organization founded in 1966 by two Italian physics professors, Edoardo Amaldi and Carlo Schaerf, which offers a unique international forum on security problems throughout the world. ISODARCO’s purpose is to bring together those with a great variety of experiences and approaches relating to security problems with discussions focused on commissioned expert papers.

China Institutes of Contemporary International Relations
China Institutes of Contemporary International Relations (CICIR) is a comprehensive research institution for international studies. In compliance with the directive of the State Council to set up a series of new institutions for international studies, the predecessor organization, China Institute of Contemporary International Relations, announced its official establishment in 1980. In 2003, the Institute was renamed and upgraded to China Institutes of Contemporary International Relations. CICIR consists of 11 institutes, two research divisions under direct supervision of CICIR leaders, eight research centers and several administrative departments. CICIR has now a staff of 380, including researchers, administrative and logistic personnel, among whom 150 are research professors or associate research professors.
Chinese People’s Association for Peace and Disarmament
Founded in June 1985, the Chinese People’s Association for Peace and Disarmament (CPAPD) is the largest Chinese non-governmental peace association with a total of 24 influential member organizations. The objectives of the CPAPD are to promote mutual understanding, friendship and cooperation between the peoples of China and the rest of the world in joint efforts to maintain world peace, oppose an arms race and war, achieve arms control and disarmament, strive for complete prohibition and thorough destruction of nuclear weapons and other weapons of mass destruction, protect ecological environment, and promote social harmony and sustainable development.

Nuclear Threat Initiative
The Nuclear Threat Initiative (NTI) is a nonprofit, nonpartisan organization with a mission to strengthen global security by reducing the risk of use and preventing the spread of nuclear, biological and chemical weapons and to work to build the trust, transparency and security that are preconditions to the ultimate fulfillment of the Non-Proliferation Treaty’s goals and ambitions. Recognizing that governments have most of the resources and authority in the large-scale work of threat reduction, NTI emphasizes leverage—using its voice to raise awareness and advocate solutions; undertaking direct action projects that demonstrate new ways to reduce threats; and foster new thinking about these problems. Founders Ted Turner and former U.S. Senator Sam Nunn serve as co-chairmen of the board of directors, which includes members from China, India, Japan, Jordan, Pakistan, Russia, Sweden, the United Kingdom and the United States.