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# The 14<sup>th</sup> PIIC Beijing Seminar on International Security: Strategic Stability and Cooperation

**Organized by:**

Program for Science and National Security Studies (PSNSS)

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**Co-Sponsored by:**

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



Nangzhou, China  
October 19 – 22, 2014

# PIIC Agenda

## October 19 (Sunday)

Registration:	9:00-12:00 and 14:00-18:00
Venue:	Lobby of Zhejiang Hotel
18:15-20:00	Reception Banquet: Hosted by Mr. Li Wuwei <i>(Former vice chairman of the CPPCC)</i>
Venue:	Lilac Café

## October 20 (Monday)

9:00-9:50	<b><u>Opening Session (Moderator: Li Hua)</u></b>
Venue:	Guiyu Hall
Invited Speech:	Li Yang ( <i>Arms Control Department, Ministry of Foreign Affairs, CHINA</i> )
9:50-10:15	<b>Tea Break</b>
10:15-12:15	<b><u>Plenary Session 1: Nuclear Energy and Nuclear Security (Moderator: Yang Fujia)</u></b>
Venue:	Guiyu Hall
Du Xiangwan	<i>The Future of Nuclear Energy in China</i>
Ye Qizhen	<i>Present Situation and Prospect of the Development of Nuclear Power in PRC</i>
Tatsujiro Suzuki	<i>Nuclear Fuel Cycle Options for Japan after the Fukushima Nuclear Accident</i>
Pan Ziqiang	<i>Nuclear Security and Safety in China</i>

12:15-14:00

Venue:

**Lunch**

Lilac Café

14:00-15:45

Venue:

Rajaraman Ramamurti  
Kang Jungmin  
Chaim Braun

**Parallel Session (A1): Nuclear Security and Safety (Moderator: Deborah Rosenblum)**

Guiyu Hall

*Lessons from the Three Nuclear Summits*  
*Nuclear Power Plant Safety and Security*  
*Cooperative Nuclear Energy Safety*  
*Regime in Northeast Asia*  
*China's Nuclear Security Concept:*  
*A Balanced and Better Approach*

Fan Jishe

15:45-16:00

**Tea Break**

16:00-18:00

Venue:

Henry Sokolski

Kelsey Hartigan  
Mirco Elena

Masafumi Matsunaga

**Parallel Session (A2): Nuclear Power Development and Nonproliferation (Moderator: Zhu Xuhui)**

Guiyu Hall

*Serious Rules for Nuclear Power*  
*without Proliferation*  
*New Approaches to the Nuclear Fuel Cycle*  
*Security Implications of Changing*  
*Energy Strategies*  
*Reprocessing in Japan and Japan's*  
*Plutonium Stock*

14:00-15:45

Venue:

Sue Clark

**Parallel Session (B1): Nuclear Forensic and Technological Cooperation (Moderator: Joseph Pilat)**

Lianhua Hall

*Building Confidence in Technical Nuclear*  
*Forensics Methods: Experiences Analyzing*  
*Standard Reference Materials for Actinide*

	<i>Elemental and Isotopic Composition</i>
Zhao Yonggang	<i>Nuclear Forensic Development in China</i>
Nathalie Wall	<i>Aspects of Technetium Chemistry in the Environment</i>
Larry Brandt	<i>China-U.S. Technical Cooperation on Nuclear Risk Reduction: Past Accomplishments and Future Opportunities</i>
Jason Reinhardt	<i>The Role of Systems and Risk Analysis in Nuclear Matters?</i>
<b>15:45-16:00</b>	<b>Tea Break</b>
<b>16:00-18:00</b>	<b><u>Parallel Session (B2): Disarmament and Verification</u></b> <b><u>(Moderator: Chen Kai)</u></b>
Venue:	Lianhua Hall
Alexander Glaser	<i>New Verification Challenges and Opportunities for Nuclear Arms Control and Disarmament</i>
Yan Jie	<i>The Challenge of Nuclear Warhead Verification For Arms Control and Disarmament: A Review of Attribute and Template Systems</i>
Zia Mian	<i>Next Steps in Increasing Transparency of Nuclear Warhead and Fissile Material Stocks for Nuclear Disarmament</i>
Zhu Jianyu	<i>The Application of Truncated Count Imaging in Nuclear Reduction Verification</i>
<b>18:00-20:00</b>	<b>Dinner</b>
Venue:	Lilac Café

## October 21 (Tuesday)

9:00-10:30

**Plenary Session 2: Enhancement of  
International Nuclear Nonproliferation Regime  
(Moderator: Qian Lihua )**

Venue:  
Sig Hecker

Guiyu Hall

Li Changhe  
Frank von Hippel  
Paolo Cotta Ramusino

*North Korea Nuclear Program:  
A 10-Year Retrospective  
Nuclear Problems on Korean Peninsula  
Iran and Multinational Enrichment  
Problems of Nuclear Proliferation and  
Disarmament in the Middle East*

10:30-10:45

Tea Break

10:45-12:30

**Plenary Session 3: International Security  
Cooperation and Reducing the Risks of Nuclear  
Terrorism (Moderator: Carlo Schaerf)**

Venue:  
Victor Gilinsky  
Matthew Cottee

Guiyu Hall

Joseph Pilat

Zhang Hui

Guo Xiaobing

*Rethinking Nuclear Power Risks  
The Nuclear Security Regime:  
Past, Present & Future  
Cascading Proliferation Fears and the  
Development of the Nonproliferation Regime  
Next Steps for Strengthening China's  
Nuclear Security  
Nuclear Security in China:  
Perceptions and Practices*

12:30-14:00

Venue:

Lunch

Lilac Café

14:00-16:00

**Plenary Session 4: Verification Technologies for  
Arms Control (Moderator: Page Stoutland)**

Venue:

Guiyu Hall

Li Genxin  
Grenard Patrick

*Political and Technologic Challenge in CTBTO  
Sustaining the Technology Base of the  
CTBT Verification Regime*

Kelsey Hartigan  
Benjamin Rusek

*Monitoring and Verification Technologies  
Monitoring and Verification for Confidence Building*

16:00-16:30

**Tea Break**

16:30-18:00

**Parallel Session (A3): Global Strategic Stability  
(Moderator: Alessandro Pascolini)**

Venue:  
David Santoro  
Caroline Milne

Guiyu Hall  
*Extended Deterrence in Northeast Asia  
Perceptions of Mutual Vulnerability between  
Advanced Nuclear States*

Xia Liping

*Strategic Stability between China and the US from  
the Perspectives of the New Model of Major  
Powers Relations*

16:30-18:00

**Parallel Session (B3): Conventional Strategic  
Weapons and Stability (Moderator: Hu Xiaodi)**

Venue:  
Lora Saalman  
James Mark Acton

Lianhua Hall  
*Impact of Prompt Global Strike Technologies on  
Sino-U.S. Strategic Stability  
Conventional Prompt Global Strike:  
Progress, Prospects and Implications for  
Strategic Stability*

Zhao Tong

*Addressing the Challenge of Conventional Strategic  
Weapons on Strategic Balance and Nuclear  
Stability*

18:00-20:00

**Dinner**

Venue:

Lilac Café

## October 22 (Wednesday)

9:00-10:45

**Plenary Session 5: Strategic Stability in the New  
International Security Situation (Moderator: Cui Liru)**

Venue:

Guiyu Hall

Lewis Dunn

*Enhancing U.S.-China Mutual Strategic Predictability*

Sun Xiangli

*Arms Control and Strategic Stability*

Theodore Postol

*Why the US Missile Defense Will Be Unreliable in Combat*

10:45-11:00

**Tea Break**

11:00-12:00

**Closing Session (Moderator: Li Hua)**

Closing Remarks by:

*Carlo Schaerf (ISODARCO)*

*Deborah Rosenblum (NTI)*

*Zhu Rui (CPAPD)*

*Yang Mingjie (CICIR)*

12:00-14:00

**Lunch**

Venue:

Lilac Café

14:00-18:00

**Meeting Activity: Visit Qinshan Nuclear Station  
(14:00 Depart from Lobby Gate by Buses)**

18:00-20:00

**Dinner**

Venue:

Lilac Café

Note:

**Speakers are allotted 15 minutes each to address  
the main issues of their topics.**

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## About the Sponsors

### **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.