

## ●●● About KAIST NEREC

Nuclear Nonproliferation Education and Research Center (NEREC) of Korea Advanced Institute of Science and Technology (KAIST) was established in April 2014 under the Korean government initiative. As the sole university organization dedicated to nuclear non-proliferation, NEREC conducts research and education to foster non-proliferation in the regional and global context in connection with the use of nuclear technology. The Center has three objectives: (1) to train and nurture non-proliferation human resources in Korea and the world, (2) to conduct non-proliferation policy research combining technical expertise and policy insights, and (3) to engage in discussions on the peaceful use of nuclear technology and various aspects of nuclear non-proliferation.

## ●●● About KINAC

KINAC was established in June 2006 as a specialized agency for nuclear nonproliferation and security to implement national nuclear control policy. KINAC is carrying out regulatory missions for peaceful nuclear activities based on expertise in nuclear safeguards, nuclear export control, physical protection, and cybersecurity. KINAC puts its efforts on R&D programs to cope with future challenges while leading policy research on international nuclear nonproliferation issues. Furthermore, the International Nuclear Nonproliferation and Security Academy (INSA) of KINAC provides training for nuclear newcomer countries and partner countries to help them establish or enhance their national nuclear nonproliferation and security system.

## ●●● About IFANS, KNDA

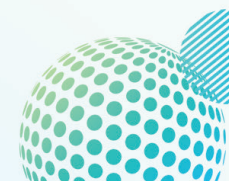
The Institute of Foreign Affairs and National Security (IFANS) of the Korea National Diplomatic Academy (KNDA) has its roots in the Research Institute of Foreign Affairs (RIFA) established in 1965, and conducts a wide variety of activities. IFANS develops mid to long-term foreign policies, conducts analysis of and research on current policy issues, and provides policy recommendations for the government. IFANS also engages in active intellectual exchange and communication with think tanks in Korea and abroad, and in building extensive academic networks with them. IFANS endeavors to promote understanding of our diplomatic issues and foreign policy. IFANS has ranked as Korea's top foreign policy and security think tank for the last ten years. It is now preparing for a new leap forwards to one of the leading research institute in the world.

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KAIST NEREC <http://nerec.or.kr/>

# 2019 International Conference on Nuclear Nonproliferation

*"Promoting Nuclear Nonproliferation"*

- ◇ Dates August 5 (Monday) - August 6 (Tuesday), 2019
- ◇ Venue International Conference Hall (2nd floor),  
Korea National Diplomatic Academy, Seoul, Republic of Korea
- ◇ Host Nuclear Nonproliferation Education and Research Center, KAIST  
Korea Institute of Nuclear Nonproliferation and Control  
Institute of Foreign Affairs and National Security, Korea National Diplomatic Academy
- ◇ Sponsor  Ministry of Science, ICT and Future Planning  NRF  KINAC  KINIC  THE STANTON FOUNDATION
- ◇ Registration [http://nerec.or.kr/conference\\_register](http://nerec.or.kr/conference_register)



# 2019 International Conference on Nuclear Nonproliferation

Message from KAIST/NEREC, KINAC, and KNDA/IFANS

While the global community continues much efforts to reduce the threat of nuclear weapons, nuclear proliferation remains one of the top international security concerns. 2019 NEREC Conference on Nuclear Nonproliferation aims at addressing the current nuclear proliferation concerns. This year's conference is held as a joint effort of Institute of Foreign Affairs and National Security (IFANS)/Korea National Diplomatic Academy (KNDA), Korea Institute of Nuclear Nonproliferation and Control (KINAC), and Nuclear Nonproliferation Education and Research Center (NEREC) of KAIST. This International Conference will identify key nuclear nonproliferation challenges on the horizon and propose strategies to cope with them with some of the best minds of our day in the field. The prospect of denuclearization of North Korea and possible ways to pursue will be analyzed. Developments in nonproliferation verification technologies will be discussed along with the examination of the related policy and implementation issues.

We are very grateful for the sponsorship for the conference by the Ministry of Science and IT (MSIT) and the Ministry of Foreign Affairs (MOFA) of the Republic of Korea (ROK), the Korea Hydro and Nuclear Power Company, and the Korean Nuclear International Cooperation Foundation. We look forward to having you join the 2019 International Conference on Nuclear Nonproliferation in Seoul for global peace and security.

Thank you.

## ◇ Program

| Day 1: August 5 (Monday)  |                       |  |
|---|-----------------------|--|
| 08:30-09:00   | Registration          |  |
| <b>Opening Session (Chair: Hyeon Seok Park, Deputy Director of NEREC, KAIST, ROK)</b>                                     |                       |  |
| 09:00-09:02   | Welcoming Remarks     | Prof. Bong-Geun Jun (Acting President of Institute of Foreign Affairs and National Security, Korean National Diplomatic Academy, ROK)  |
| 09:03-09:05   | Opening Remarks       | Prof. Soo Chan Chae (Vice President, KAIST, ROK)   |
| 09:05-09:15   | Congratulatory Speech | Hon. Shim Jae-Kwon (Member of Parliament, National Assembly, ROK)  |
| <b>Keynote Speech</b>   |                       |  |
|   | Chair                 | Prof. Soonheung Chang (President, Handong University/KAIST, ROK)   |
| 09:15-09:55   | Keynote Speech        | "What does the American Public Think about Conflict with North Korea?"<br>Prof. Scott Sagan (The Caroline S.G. Munro Professor of Political Science, Stanford University, USA)   |
| 09:55-10:10   | Q&A                   |  |
| 10:10-10:25   | Break                 |  |
| <b>Session I - Nuclear Nonproliferation Challenges 2019: What we see and What we do</b>                                   |                       |  |
|   | Chair                 | Prof. Man-Sung Yim (Associate Vice President of the International Office, Director of NEREC, KAIST, ROK)   |
| 10:25-11:40   | Panel Presentations   | "Global Nuclear Nonproliferation Review"<br>* Prof. Scott Sagan (The Caroline S.G. Munro Professor of Political Science, Stanford University, USA)<br>* Prof. Steve Miller (Director of the Belfer Center's International Security Program, Harvard University, USA)<br>* Prof. Dingli Shen (Associate Dean, Professor of International Studies, Fudan University, China)<br>* Dr. Eunjeong Cho (Research Fellow, Institute for National Security Strategy, ROK)   |
| 11:40-12:30   | Panel Discussions     | * Ms. Saima Sial (Senior Research Officer, Center for International Strategic Studies, Pakistan)<br>* Ms. Leah Matchett (Knight Hennessy Scholar, Stanford University, USA)  |
| 12:30-14:00   | Lunch                 | Poster Presentation: NEREC Research Fellows  |
| <b>Session II - Denuclearization of North Korean nuclear weapons</b>  |                       |  |
| II.1  | Chair                 | Dr. Sang Hyun Lee (President of Korean Nuclear Policy Society, Senior Research Fellow, The Sejong Institute, ROK)  |
| 14:00-14:20   | Special Lecture       | "The ROK's Denuclearization and North Korea Policy after the Hanoi summit"<br>Prof. Chung-in Moon (President's Special Advisor, Professor of Political Science, Yonsei University, ROK)  |
| 14:20-15:00   | Q&A                   |  |
| 15:00-15:20   | Break                 |  |
| II.2  | Chair                 | Prof. Bong-Geun Jun (Acting President of IFANS, KNDA, ROK)   |
| 15:20-16:35   | Panel Presentations   | "Restarting the US-DPRK Dialogue and Denuclearization Process"<br>* Prof. Chung-in Moon (President's Special Advisor, Yonsei University, ROK)<br>* Prof. John Park (Director, Korea Working Group, Harvard University, USA)<br>* Prof. Vipin Narang (Associate Professor of Political Science, MIT, USA)   |
| 16:35-16:50   | Break                 |  |
| 16:50-18:00   | Panel Discussions     | * Dr. Tong Zhao (Fellow, Carnegie-Tsinghua Center for Global Policy, China)<br>* Prof. Nobumasa Akiyama (Professor of International and Public Policy, Hitotsubashi University, Japan)<br>* Prof. Benjamin Valentino (Associate Professor of Political Science, Dartmouth University, USA)   |
| <b>Evening Session (Chair: Prof. Sungyeol Choi, Deputy Director of NEREC, KAIST, ROK)</b>                                 |                       |  |
| 18:00-18:30   | Poster Presentation   | NEREC Summer Fellows   |
| 18:30-20:00   | Dinner                |  |
| 19:00-19:30   | Special Dinner Speech | Prof. Steven Miller (Director of the Belfer Center's International Security Program, Harvard University, USA)  |
| Day 2: August 6 (Tuesday)   |                       |  |
| <b>Session III - Preparing for Potential Nuclear Proliferation Challenges through Verification Technology Development</b> |                       |  |
| III.1   | Chair                 | Dr. Moon Hee Chang (President of Korea Institute of Nuclear Materials Management, POSTECH, ROK)  |
| 9:00-10:30  | Presentations         | "Technology for Nuclear Nonproliferation and Verification" by US DOE Consortium Leaders<br>* Prof. Sara Pozzi (Director of Consortium for Verification Technology, Professor of Nuclear Engineering, U Michigan, USA)<br>* Prof. Kai Vetter (Chief Scientist of Nuclear Science and Security Consortium, Professor of Nuclear Engineering, UC Berkeley, USA)<br>* Prof. John Mattingly (Chief Scientist of Consortium for Nonproliferation Enabling Capabilities, Associate Professor of Nuclear Engineering, NCSU, USA)   |
| 10:30-10:40   | Q&A                   |  |
| 10:40-11:00   | Break                 |  |
| III.2   | Chair                 | Dr. Min Baek (Executive Advisor, Korea Institute of Nuclear Nonproliferation and Control, ROK)   |
| 11:00-12:00   | Panel Discussions     | "How do we integrate technology development with nuclear nonproliferation and verification?"<br>* Prof. Sara Pozzi (Professor of Nuclear Engineering, U Michigan, USA)<br>* Prof. Kai Vetter (Professor of Nuclear Engineering, UC Berkeley, USA)<br>* Prof. John Mattingly (Associate Professor of Nuclear Engineering, NCSU, USA)<br>* Prof. Jooho Whang (Vice President, Professor of Nuclear Engineering, Kyunghee University, ROK)<br>* Dr. Seong Youn Jo (Director General of Nuclear Control Policy Center, KINAC, ROK)<br>* Prof. Sungyeol Choi (Assistant Professor of Nuclear and Quantum Engineering, KAIST, ROK) |
| <b>Closing Session (Chair: Prof. So Young Kim, Head of Graduate School of Science, Technology and Policy, KAIST, ROK)</b> |                       |  |
| 12:00-12:20   | Closing Speech        | Mr. Sang-beom Lim (Director General for Nonproliferation and Nuclear Affairs, Ministry of Foreign Affairs, ROK)  |
| 12:20-12:30   | Closing Remarks       | Prof. Man-Sung Yim (Director of NEREC, KAIST, ROK)   |
| 12:30-14:00   | Lunch                 |  |