



PARTNERSHIP *for* GLOBAL SECURITY

LEADING THE WORLD TO A SAFER FUTURE

Nuclear Security and Emerging Disruptive Technologies: The Impact of Cyber and Artificial Intelligence & Security Against EMP

March 22, 2018
Lily Hall, Hoam Faculty House
Seoul National University
Seoul, South Korea

10:00 - 10:15	Introduction
Session 1	Dr. Il Soon HWANG , Korean Nuclear Policy Society Kenneth Luongo , Partnership for Global Security
10:15 - 10:45	Overview
Session 2	Kenneth Luongo , Partnership for Global Security Overview of the Initiative on Nuclear Security, Governance and Geopolitics (INSG), its origins and objectives of the workshop.
10:45 - 11:00	Coffee Break
11:00 - 13:00	Nuclear Security Challenges in a New Era: Emerging and Disruptive Technologies
Session 3	<i>Moderator</i> Dr. Anita Nilsson , AN and Associates
	<i>“Cyber and AI Challenges”</i> Kenneth Luongo , Partnership for Global Security
	<i>“KINAC’s Role on Cyber Security in Nuclear Facilities and its Challenges”</i> Mr. Ickhyun SHIN , Korea Institute of Nuclear Nonproliferation and Control, ROK
	<i>“Japan’s Efforts on Cyber Security in Nuclear Security and a Cooperative Framework in Asia”</i> Ms. Naoko Noro , Integrated Support Center for Nuclear Nonproliferation and Nuclear Security, Japan Atomic Energy Agency, Japan
	<i>“Investigation of Insider Identification by Using Human Bio-Monitoring”</i> Dr. Man-Sung YIM , Korea Advanced Institute of Science and Technology, ROK
	<i>“Intrusion Detection Based on Deep Learning”</i> Dr. Kwangjo KIM , Korea Advanced Institute of Science and Technology, ROK



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13:00 - 14:00	Lunch
14:00 - 15:00	Governance of Nuclear -EDT Interfaces
Session 4	Dr. Anita Nilsson , AN and Associates Kenneth Luongo , Partnership for Global Security
	Examples of governance structures that have been used in other technology areas; Cyber-focused governance regimes – existing or under consideration; Options for AI governance; Perspectives on cooperation in North East Asia – Korea, Japan, U.S, China.
15:00 - 15:15	Coffee Break
15:15 - 17:00	Security Against EMP
Session 5	<i>Moderator</i> Dr. Il Soon HWANG , Korean Nuclear Policy Society
	<i>“North Korean EMP Threat”</i> Dr. Yong-Sup HAN , Korea National Defense University
	<i>“NNEMP Simulation Technology”</i> Dr. Jong-Seo CHAI , Korea Atomic Energy Research Institute
17:00 - 17:30	Next Steps and Closing Remarks
17:30 - 18:00	Nuclear Material Laboratory Tour
18:30 - 20:00	Dinner <i>Conference Hall, Hoam Faculty Club, Seoul National University</i>