

2018년 12월 워싱턴 DC 한-미 핵정책전문가 네트워크 모임

(Nuclear Policy Leadership Initiative: NPLI)



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BUILDING A SAFER WORLD

2018.12.17. - 2018.12.21. Washington DC

- **KNPS - PGS 비공개 행정책전문가 세미나**
(개최장소: Carnegie Endowment for International Peace)
- **북핵 및 한미 원자력 협력 전문가 세미나**
(개최장소: Woodrow Wilson International Center for Scholar)
- **행정책전문가 세미나**
(개최장소: Mansfield Foundation / Nuclear Threat Initiative)

한국측 참가자(1/2)

이상현

행정학회 회장

한용섭

행정학회 초대 회장 및 고문

전봉근

행정학회 부회장

황일순

행정학회 핵안보연구소장

김영준

행정학회 총무이사

한 국 측 참 가 자(2/2)

박노벽

전 러시아대사

변준연

행정학회 부회장

안남성

한국원자력대학원(KINGS) 총장



이준상

행정학회 간사

윤희준

외교부 사무관

1. 한국핵정책학회(KNPS) - 미국 Partnership for Global Security(PGS) 비공개 핵정책전문가 세미나 2018.12.19. - 2018.12.20. Carnegie Endowment for International Peace



Strengthening Civil Nuclear Cooperation Between the U.S. and South Korea in a Competitive Global Market


December 19-20, 2018

Carnegie Endowment for International Peace
Choate Room A/B
1779 Massachusetts Avenue NW
Washington, DC, United States

Hosted by the Korea Nuclear Policy Society
with the support of the Partnership for Global Security

Workshop Scope: A focus on how the civil nuclear relationship between the U.S. and South Korea can be strengthened and re-structured in an environment defined by: a growing global need for low-carbon energy; intense competition for nuclear business among allies (U.S. and ROK) and between those allies and fully state-owned nuclear suppliers in Russia and China; and emerging complex global security challenges arising from the evolving nature of international and nuclear geopolitics.

DECEMBER 19	
10:00-10:15	Introductory Remarks Mr. Kenneth Luongo , Partnership for Global Security Dr. Youngjun Kim , Korea National Defense University
10:15-12:00	Opportunities for U.S. - ROK Nuclear Cooperation in the Global Nuclear Market <i>Speakers</i> Dr. Sang Hyun Lee , Korea Nuclear Policy Society Dr. Ro-hyung Park , Former ROK Ambassador to Russia and Head of U.S.-ROK High Level Bilateral Commission Mr. Andrew Paterson , Verdigris Capital Mr. Walter Howes , Verdigris Capital <i>Discussion:</i> Identifying opportunities for:



- The global environment for the expansion of large-scale nuclear power with a focus on the Middle East, Asia, and Europe (incl. new reactors and replacements)
- The collaboration on SMRs and Advanced Reactors, and on new fuels for existing reactors (Triso, and other ATF)
- The U.S. and ROK for collaboration on spent fuel and reactor decommissioning

12:00-1:00 Lunch

1:00-3:00 **Obstacles and Risks to U.S. - ROK cooperation in the Global Nuclear Market**

Speakers
Dr. Il Soon Hwang, Seoul National University
Dr. Byong-chul Lee, Institute of Peace and Cooperation
Mr. Dan Lipman, Nuclear Energy Institute
Mr. Paul Murphy, Gowling WLG, Murphy Consulting

Discussion:
Is there something important to be gained by U.S.-ROK civil nuclear cooperation and, if so, how does that value get structured and implemented and what could impede it? Some of the essential issues to be addressed include:

- How do you create the market and support project development in "first user" nations?
- Content, strengths and weaknesses of a U.S.-ROK civil nuclear package (to include legal, regulatory, financial, corporate competitiveness and national prestige challenges to cooperation).
- Can South Korea's and America's major nuclear corporations work together on a portfolio of projects, including at the front end of an international project and alternatives to having one lead company and subcontractors?
- Can cooperation work when the market for SMRs and advanced reactors is still undefined?
- Spent Fuel Responsibility under a cooperative arrangement.
- Handling ENR demands from developing countries.
- Addressing and countering Russia's and China's global nuclear supply strategies.

3:00-3:15 Coffee Break


3:15-4:30 **Current State and Potential Future of Civil Nuclear Politics**

Speakers
Dr. Yong-sup Han, Korea National Defense University
Dr. Bong-geun Jun, Korea National Diplomatic Academy
Mr. Ted Jones, Nuclear Energy Institute
Mr. Kenneth Luongo, Partnership for Global Security

Discussion:
Overview of the nuclear politics in the U.S. and ROK including the views of the Moon and Trump administrations, the perspectives of the ROK parliament and U.S. Congress, and the stance of non-governmental organizations. The issues will include the future of domestic nuclear power in each nation, perspectives on advanced reactors, spent fuel debates, and the impact of required carbon reductions on the future of nuclear power.

한국핵정책학회(KNPS) 소식지 제 3호

1. 한국핵정책학회(KNPS) - 미국 Partnership for Global Security(PGS) 비공개 핵정책전문가 세미나 2018.12.19. - 2018.12.20. Carnegie Endowment for International Peace



4:30-6:30 Further Exploring the Operational Questions of U.S.-ROK Nuclear Export Cooperation

Speakers
President Jun Yeon Byun, Vision Power Corporation
President Nam-sung Ahn, KEPCO International Nuclear Graduate School (KINGS)
Mr. Jeffrey Crater, Edmondson Hopkins Group
Dr. Robert Ichord, Atlantic Council

Discussion:
Delve more deeply into the core structural and operational issues that would be necessary to solve if the U.S. and South Korea were to cooperate more intensively in the civil nuclear area. Key issues include:

- How do you create the market and support project development in "first user" nations?
- What is the framework of risk and how do governments or institutions accept and share it – Financial, Security, Cyber-attack?
- How are the legal and regulatory requirements similar or different in the U.S. and ROK and can they be harmonized for an international project?
- What is the role of U.S. and ROK legislature's direction and review?
- What is the role of nuclear export financing institutions and how could they work together? (Bilateral funds to create assistance to markets? Finance and facilitate a packet of actions and create a US-ROK action team that can support that implementation?)

7:00 - 9:00 Dinner
Hosted by the ROK Embassy
Venue: Occidental Grill and Seafood
1475 Pennsylvania Ave NW
Washington, DC 20004


DECEMBER 20

9:30 – 12:00 Roundtable Discussion: Evaluating New Ideas for U.S.-ROK Nuclear Cooperation

All Participants Roundtable

Discussion:
Provide additional perspectives on the previous day's work and begin a discussion on some possible next steps that could be further developed for the U.S. and ROK governments that could be addressed in more depth in follow-on workshops. Some of the key issues include:

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- Evolving and Strengthening the role of the HLBC
- Is There a Need or Value in a Bilateral Agreement that Expands on the 123?
- Is there value in having a civilian consortium do a market analysis, assess project timing, and develop a joint export strategy analysis?
- Should there be an official joint policy and strategy review committee for future issues and areas for cooperation?
- Should there be the creation of U.S.-ROK expert working groups?
- Joint analysis of the SMR and advanced reactor global market, including a focus on energy demand in different regions/nations, domestic capability to manage a nuclear infrastructure, grid size and growth, and operations?
- US-ROK formal tasking to IAEA to develop/adapt safeguards for advanced reactors?
- Developing a target for the commercial development of SMRs and in the next 10-15 years
- US-ROK formal request to IAEA to create a new benchmarks document for smaller nations and reactors that can lead to an internationally accepted model for SMR and advanced reactor deployment?
- Post-2020 fuel cycle study with new administrations in both countries – including tasking account of new developments?
- Strengthening U.S.-ROK engagement on nuclear governance and emerging technologies (cyber, AI, etc.) in the civil nuclear sector?

12:00-1:00 Adjoin and Lunch

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Participants List

1. **Dr. Nam Sung Ahn**, President of KINGS - KEPCO International Nuclear Graduate School
2. **Mr. Jun Yeon Byun**, Former Vice President, KEPCO, President of Vision Power Corporation
3. **Mr. Jeffrey Crater**, President and CEO, Edmondson Hopkins Group, LLC
4. **Mr. James Glasgow**, Partner, Pillsbury Winthrop Shaw Pittman LLP
5. **Dr. Yong Sup Han**, Founder and Former President of the Korea Nuclear Policy Society, Former Negotiator to North Korea on Arms Control
6. **Mr. Walter Howes**, Managing Director, Verdigris Capital, LLC
7. **Dr. Il Soon Hwang**, Seoul National University, Director of Nuclear Security Institute
8. **Dr. Robert Ichord, Jr.**, Nonresident Senior Fellow, Global Energy Center, Atlantic Council
9. **Mr. Ted Jones**, Director, National Security and International Programs, Nuclear Energy Institute
10. **Dr. Bong Guen Jun**, Korea National Diplomatic Academy, Former Staff of the ROK President Office on Nuclear Issues
11. **Dr. John E. Kelly**, President, American Nuclear Society
12. **Mr. Daniel Klin**, Senior Program Associate, Partnership for Global Security
13. **Dr. Youngjun Kim**, Professor, Korea National Defense University
14. **Mr. Byong-chul Lee**, Vice President, Institute of Peace and Cooperation
15. **Mr. Jungsang Lee**, Ph.D Candidate, Korea National Defense University
16. **Dr. Sanghyun Lee**, President of the Korea Nuclear Policy Society, Former Director-General of Policy Planning Staff of MOFA
17. **Mr. Dan Lipman**, Vice President, Suppliers, New Reactors and International Programs, Nuclear Energy Institute
18. **Ms. Florence Lowe-Lee**, Founder and President, Global Business America Institute
19. **Mr. Kenneth Luongo**, President, Partnership for Global Security
20. **Mr. Paul Murphy**, Managing Director, Energy Group, Gowling WLG and Murphy Consulting
21. **Dr. Ro-Byung Park**, Former ROK Ambassador to Russia and the Head of ROK-US High Bilateral Commission
22. **Mr. Andrew Paterson**, Principal, Verdigris Capital, LLC
23. **Mr. Hyo Jun Yoon**, Second secretary, Nuclear Diplomacy, MOFA
24. **Ms. Heather Wuest**, Program Research Associate, Partnership for Global Security
25. **Ms. Phillis Yoshida**, Senior Fellow, Energy and Technology, Sasakawa Peace Foundation USA

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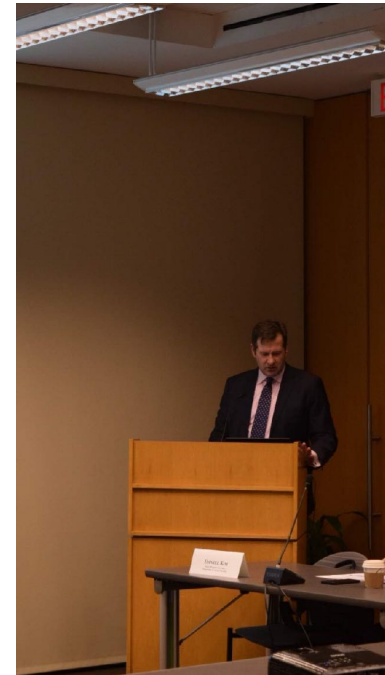
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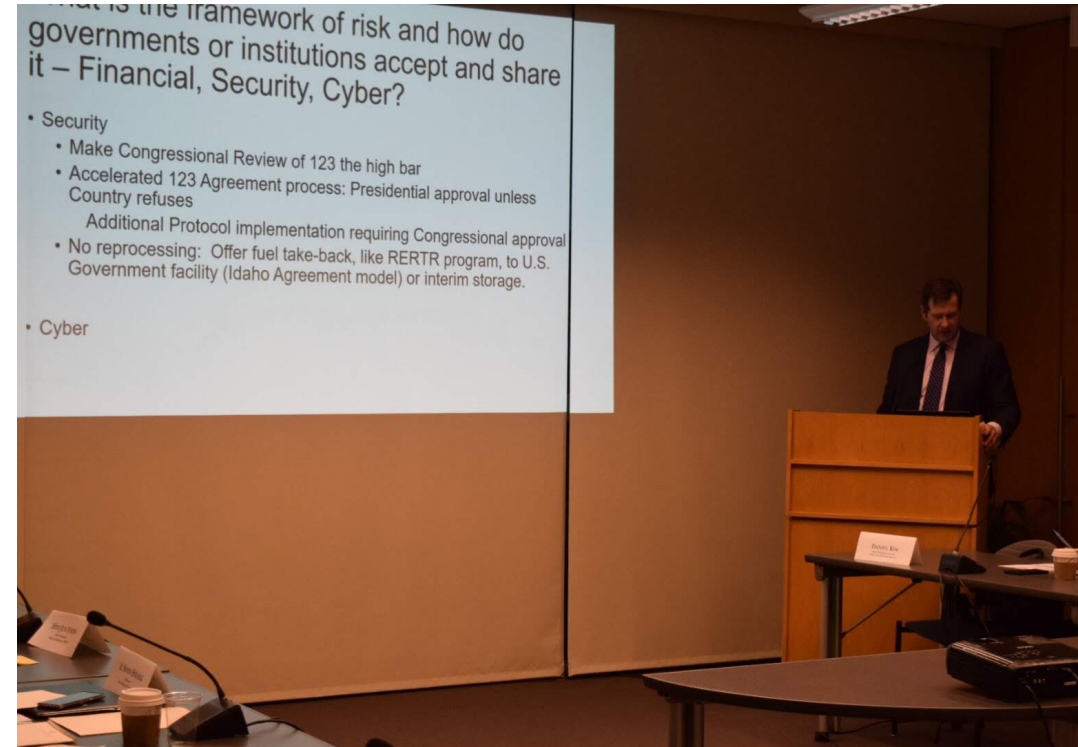
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2. 북핵 및 한미 원자력 협력 전문가 세미나 2018.12.18. Woodrow Wilson International Center for Scholar



The Future of Nuclear Industry and the Nonproliferation Regime: Areas for U.S.-ROK Cooperation

Roundtable with the Korea Nuclear Policy Society

December 18, 2018
Woodrow Wilson Center
5th floor Conference Room

AGENDA

10:00 am – 10:10 am	Introductions and Opening Remarks Moderators: Abraham Denmark , Director, Asia Program, Woodrow Wilson Center Adam Mount , Senior Fellow and Director, Defense Posture Project, Federation of American Scientists
10:10 am – 11:15 am	Session I: Nuclear Trade and Cooperation Presenters: Sharon Squassoni , Research Professor, George Washington University Hwang Il Soon , Director, Korea Nuclear Security Research Institute
11:15 am – 11:25 am	Coffee Break
11:25 am – 12:30 pm	Session II: U.S.-ROK Cooperation on Nuclear Nonproliferation Presenters: Joshua Pollack , Research Associate and Managing Editor, <i>The Nonproliferation Review</i> , Center for Nonproliferation Studies Jun Bong-geun , Professor, Korea National Diplomatic Academy
12:30 pm – 1:30 pm	Buffet Luncheon

TACKLING GLOBAL ISSUES Through Independent Research, Open Dialogue and Actionable Ideas



The Future of Nuclear Industry and the Nonproliferation Regime: Areas for U.S.-ROK Cooperation

Korea Nuclear Policy Society
Woodrow Wilson International Center for Scholars
5th floor conference room, Woodrow Wilson Center
10 am to 1:30 pm • December 18, 2018

Presenters:

Abraham M. Denmark (Moderator) is director of the Asia Program at the Woodrow Wilson International Center for Scholars. He holds a joint appointment as a senior fellow for the Wilson Center's Kissinger Institute on China and the United States. Prior to joining the Wilson Center, Mr. Denmark served as Deputy Assistant Secretary of Defense for East Asia. He has also worked as senior vice president for Political and Security Affairs at the National Bureau of Asian Research, a fellow at the Center for a New American Security, and held several positions in the U.S. intelligence community.

Dr. Adam Mount (Moderator) is a senior fellow and director of the Defense Posture Project at the Federation of American Scientists (FAS), where his work covers U.S. nuclear strategy and force structure, global nuclear politics, deterrence, and North Korea. Previously, he was a Senior Fellow at the Center for American Progress and a Stanton Nuclear Security Fellow at the Council on Foreign Relations (CFR). In 2015-16, he directed the CFR Independent Task Force on U.S. Policy toward North Korea. He now co-directs the FAS International Study Group on North Korea Policy, a group working to develop a sustainable strategy to manage a nuclear-armed North Korea.

Prof. Sharon Squassoni (Nuclear Trade and Cooperation) is research professor at the Institute for International Science and Technology Policy, Elliott School of International Affairs, at the George Washington University. Previously, she directed the Proliferation Prevention Program at the Center for Strategic and International Studies and was a senior scholar at the Carnegie Endowment for International Peace, both in Washington, DC. She has specialized in nuclear nonproliferation, arms control and security policy for three decades, serving in the US government at the Arms Control and Disarmament Agency, the State Department, and the Congressional Research Service.

Prof. Jun Bong-geun (Nuclear Trade and Cooperation) is professor and director-general of the Department of National Security and Unification Studies at the Korea National Diplomatic Academy. Previously, Professor Jun held several governmental and non-

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2. 북핵 및 한미 원자력 협력 전문가 세미나

2018.12.18. Woodrow Wilson International Center for Scholar



The Future of Nuclear Industry and the Nonproliferation Regime:
Areas for U.S.-ROK Cooperation

Korea Nuclear Policy Society
Woodrow Wilson International Center for Scholars
5th floor conference room, Woodrow Wilson Center
10 am to 1:30 pm • December 18, 2018

Presenters:

Abraham Denmark
Director, Asia Program
Woodrow Wilson Center

Sharon Squassoni
Research Professor, Institute for
International Science & Technology Policy
George Washington University

Hwang Il Soon
Director
Korea Nuclear Security Research Institute

Adam Mount
Director, Defense Posture Project
Federation of American Scientists

Joshua Pollack
Editor, *The Nonproliferation Review*
James Martin Center for
Nonproliferation Studies

Jun Bong-geun
Professor
Korea National Diplomatic Academy

Participants:

Amb. Park No-byeok
Former ROK Ambassador to Russia;
Former Head of ROK-U.S.
Nuclear Bilateral Commission

Lee Sang-hyeon
President
Korea Nuclear Policy Society

Han Yong-seob
Former Vice President,
Korea National Defense University;
Former Arms Control Negotiator
to North Korea

Lee Byeong-cheol
Vice President
The Institute of Peace and Cooperation

Byeon Jun-yeon
President, Vision Power;
Former Executive Vice President of
KEPCO

Ahn Nam-seong
President
KEPCO International
Nuclear Graduate School

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Stimson Center

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The Brookings Institution

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Daniel Kim
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3. 한미 행정책 전문가 세미나

2018.12.17. Mansfield Foundation / 2018.12.18. Nuclear Threat Initiative



3. 한미 핵정책 전문가 세미나

2018.12.17. Mansfield Foundation / 2018.12.18. Nuclear Threat Initiative



4. 주미 한국대사관 정무공사 주관 한미 행정책전문가 공식 만찬 (2018.12.19.)



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