

# International Symposium on Spent Nuclear Fuel (SNF) Management

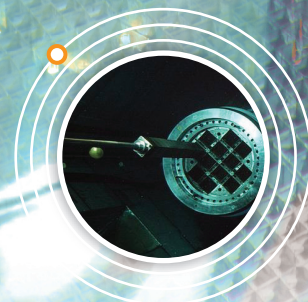
November 14-16, 2013

RENAISSANCE Hotel, Seoul, KOREA

The symposium will be held for November 14-16, 2013  
at the RENAISSANCE Hotel in Seoul, Korea.

The symposium is organized by Korea Radioactive Waste Agency (KORAD)  
formerly Korea Radioactive-waste Management Corporation (KRMCo).

Experts, engineers, and stakeholders from various countries will attend  
the symposium to share the valuable experiences and technology developments  
on spent nuclear fuel (SNF) management, especially Storage &  
Transportation, Geological Disposal, and Status in each country.



**KORAD**  
KOREA RADIOACTIVE  
WASTE AGENCY

November 14, 2013

## Opening Session & Welcome Reception

Location: Diamond Ball Room III (3F)

16:00~16:10	Opening Remarks	
16:10~16:20	Welcome Address	<b>Dr. Myung-Jae Song</b> (President & CEO, KORAD)
16:20~16:30	Congratulatory Remarks	<b>Prof. Doo-Seung Hong</b> (Chairman of the Stakeholder Engagement Committee)
16:30~17:10	Keynote Speech-I	<b>Ms. Monika Kinker</b> (Waste Safety Specialist, IAEA)
17:10~17:50	Keynote Speech-II	<b>Dr. Goon-Cherl Park</b> (President, KINGS)
17:50~18:00	Group Photo	
18:00~20:00	Welcome Reception	

November 15, 2013

## Technical Session-I Strategy and Status of SNF Management

Chaired by: Mr. Joo Wan Park

Location: Topaz (4F)

<b>T-I-1</b>	<b>10:00~10:30</b>	Current Status of SNF Management in Korea (Dr. Chul-hyung Kang, KORAD, KOREA)
<b>T-I-2</b>	<b>10:30~11:00</b>	High-level Radioactive Waste Management in France (Dr. Gerald Ouzounian, ANDRA, FRANCE)
<b>T-I-3</b>	<b>11:00~11:30</b>	The Geological Disposal Program in Japan: Evolution of the Technical Aspects (Dr. Hiroyoshi Ueda, NUMO, JAPAN)
<b>T-I-4</b>	<b>11:30~12:00</b>	Current Status of SNF Management in the United States (Dr. Kevin McMahon, SNL, USA)
<b>12:00~13:00</b>		<b>LUNCH</b> (Club Horizon 23F)

November 15, 2013

## Technical Session-II Storage and Transportation of SNF

Chaired by: Dr. Ken Sorenson and Mr. Donghak Kook

Location: Topaze (4F)

<b>T-II-1</b>	<b>13:00~13:30</b>	Measurement of Strain and Acceleration Induced on Fuel Rods in a Surrogate PWR Subjected to Normal Conditions of Truck Transport Loadings (Dr. Ken Sorenson, SNL, USA)
<b>T-II-2</b>	<b>13:30~14:00</b>	The Approach Strategy of Spent Fuel Integrity Evaluation during Transportation and Storage in Korea (Mr. Seongki Lee, KEPCO-NF, KOREA)
<b>T-II-3</b>	<b>14:00~14:30</b>	SNF Management at NPP in Korea (Mr. Kyung Deok Kim, KHNP, KOREA)
<b>T-II-4</b>	<b>14:30~15:00</b>	Test Activities for Safety Demonstration of Dry Storage Systems in Korea (Dr. Sanghoon Lee, KAERI, KOREA)
<b>15:00~15:30</b>		<b>COFFEE BREAK</b>
<b>T-II-5</b>	<b>15:30~16:00</b>	A Study on the Economic and Technical Aspects of Once-Through Nuclear Fuel Cycles in Korea (Prof. Jong-soon Song, Chosun Univ., KOREA)
<b>T-II-6</b>	<b>16:00~16:30</b>	Safety Analysis Methods for Transport & Storage Cask of the Spent Nuclear Fuels in Korea (Mr. Nak Hoon Sung, KONES, KOREA)
<b>T-II-7</b>	<b>16:30~17:00</b>	Current Status of Spent Fuel Integrity Evaluation R&D for Dry Storage in Korea (Mr. Donghak Kook, KAERI, KOREA)
<b>T-II-8</b>	<b>17:00~17:30</b>	R&D Activities of SNF Transportation and Storage in Korea (Dr. Jeonghyoun Yoon, KORAD, KOREA)



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## Technical Session-III Geological Disposal of SNF

Chaired by: Dr. Stratis Vomvoris and Dr. Sungwook Choung Location: Opal & Jade (4F)

<b>T-III-1</b>	<b>13:00~13:30</b>	The Swiss Spent Fuel and High Level Waste Management Program-Design Concepts and Basis for Safety Case Development (Dr. Stratis Vomvoris, Nagra, SWITZERLAND)
<b>T-III-2</b>	<b>13:30~14:00</b>	The Status of Deep Borehole Earthquake Monitoring System for SNF Disposal in Korea (Ms. Donghee Park, KHNP_CRI, KOREA)
<b>T-III-3</b>	<b>14:00~14:30</b>	Current Status of Safety Criteria Development for HLW Disposal in Korea (Ms. Eun Jin Seo, KINS, KOREA)
<b>T-III-4</b>	<b>14:30~15:00</b>	Manufacturing of a Copper Canister by Cold Spray Coating (CSC) (Dr. Min Soo Lee, KAERI, KOREA)
<b>15:00~15:30</b>		<b>COFFEE BREAK</b>
<b>T-III-5</b>	<b>15:30~16:00</b>	Phase II In-Situ Test and Experiments Plan in KURT (Dr. Geon Young Kim, KAERI, KOREA)
<b>T-III-6</b>	<b>16:00~16:30</b>	Review of Deep Borehole Disposal Concept for Implementation in Korea (Prof. Chang-Lak Kim, KINGS, KOREA)
<b>T-III-7</b>	<b>16:30~17:00</b>	Effects and Application of Organic Materials on Iodide Transport in Subsurface Environments (Dr. Sungwook Choung, POSTECH, KOREA)
<b>T-III-8</b>	<b>17:00~17:30</b>	Spent Nuclear Fuel Disposal in Sweden: Science, Technology, Licensing and Public Communication (Mr. Torsten Eng, SKB, SWEDEN)
<b>T-III-9</b>	<b>17:30~18:00</b>	Development of Geo-database System for Spent Nuclear Fuel Disposal (Dr. Haeryong Jung, KORAD, KOREA)

## Technical Tour

November 16, 2013

(Wolsong LILW Disposal Center, Gyeongju)

<b>08:00-20:00</b>	Wolsong LILW Disposal Center
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## Symposium Topics

- Strategy and/or status of SNF management
- Transportation and storage of SNF
  - Design and safety analysis
  - Transportation system
  - Long-term integrity of dry storage for structural material
  - Transportation risk assessment
- Geological disposal of SNF
  - Characterization of natural barrier
  - Design & performance assessment of geological disposal system
  - Engineered barrier system of geological disposal system
  - Concept and design of deep borehole disposal system

## Abstract Submission

- Authors are required to submit abstract electronically in Microsoft Word or Adobe Acrobat (pdf) file via e-mail below:  
e-mail: nohul@korad.or.kr and dnmjddl00@korad.or.kr
- Abstract should be no longer than 2 pages, and each session includes 30-minute oral presentation.
- Important dates
  - Abstract submission: October 26, 2013.
  - Submission of presentation material: November 6, 2013

## Registration

- All registrants except speakers must fill out the Registration Form which is available below:  
[http://www.korad.or.kr/krmc2011/eng/information/ke03\\_05.jsp](http://www.korad.or.kr/krmc2011/eng/information/ke03_05.jsp)
- Submit the Registration Form via e-mail below:  
e-mail: snf-symposium@korad.or.kr
- This symposium is free of charge.

## Map



### Contacts for More Information

For questions on the symposium and the submission of abstracts contact:

- Dr. Haeryong Jung Tel: +82-42-601-5314 / E-mail: nohul@korad.or.kr
- Ms. Oujeong Yoo Tel: +82-54-750-4283 / E-mail: dnwjddl00@korad.or.kr

### Official Language

English is the official language of the symposium and will be used for all printed materials, presentations and discussions.

### Hotel Information

As for recommended RENAISSANCE Hotel in Seoul (venue of the Symposium), it is a middle size hotel with affordable room rate, and discount room rate would be available.

- Homepage: [www.renaissance-seoul.com](http://www.renaissance-seoul.com)
- Tel: +82-2-555-0501 Fax: +82-2-555-8118

### Information on Technical Tour

Technical tour is open only to international attendees. The technical tour will take place at the Wolsong LILW disposal center located in Gyeongju. The tour will leave the RENAISSANCE Hotel at 8 AM.

Anyone interested in the tour must fill out the application form available below

- [http://www.korad.or.kr/krmc2011/eng/information/ke03\\_05.jsp](http://www.korad.or.kr/krmc2011/eng/information/ke03_05.jsp)

Submit the application form via e-mail prior to November 10, 2013.

- e-mail: [snf-symposium@korad.or.kr](mailto:snf-symposium@korad.or.kr)

For more information contact:

- Dr. Haeryong Jung Tel: +82-42-601-5314 / E-mail: nohul@korad.or.kr
- Ms Oujeong Yoo Tel: +82-54-750-4283 / E-mail: dnwjddl00@korad.or.kr