

# I. 행사일정 및 워크숍 안내

## 1. 국제 워크숍

### The 10th Korea-Japan Joint Workshop on PSA - For Asian PSA Network -

- Date : May 18 ~ 20, 2009
- Place : Haevichi Hotel & Resort, Diamond Hall A/B, Sapphire Hall, Emerald Hall (Hotel B1)
- Organizer : Korea Atomic Energy Research Institute, Integrated Safety Assessment Division & Korean Nuclear Society, Division of Thermal Hydraulics Safety

Time	Agenda
5/18 (Mon)	
08:30~09:30	Registration
09:30~10:10 (Diamond Hall A)	Opening Session <ul style="list-style-type: none"> <li>• Opening Remarks (Prof. Un-Chul LEE, Seoul National Univ.)</li> <li>• Welcoming Address (Prof. Mitsumasa HIRANO, Tokyo City Univ.)</li> <li>• Congratulatory Address (Dr. Jong-In LEE, President of Korean Nuclear Society)</li> </ul>
10:10~11:00	Keynote Speech <ul style="list-style-type: none"> <li>• Prof. Chang Sun KANG, Seoul National Univ.</li> <li>• Prof. Sunsuke KONDO, Tokyo Univ.</li> </ul>
11:00~11:20	Coffe Break
11:20~12:20	Special Lectures <ul style="list-style-type: none"> <li>• Overview of Seismic PSA (Dr. Katsumi EBISAWA, JNES)</li> <li>• Aging Related Degradation Assessment for Use in Performing PSAs (Mr. Joseph BRAVERMAN, BNL)</li> </ul>
12:20~13:50	Lunch
13:50~15:50 (Diamond Hall A)	Technical Session I-A : Risk Informed Regulation <ul style="list-style-type: none"> <li>• Recent Revision of Regulatory Guide on Classification of Safety Importance using Risk Information (Akihide HIDAKA, JAEA)</li> <li>• Development of the Performance Goals for the Korean Nuclear Power Plants (Do Sam KIM, KINS)</li> <li>• A Risk-Informed and Performance-Based Approach for Improving Regulatory Inspection Program and System in Korea (Dae-Wook CHUNG, KINS)</li> <li>• Development of Risk Evaluation Program SEIF for Inspection Findings (Huichang YANG, ENESYS Co., Ltd.)</li> <li>• The Improvement of Regulatory Inspection System utilizing Risk Information in Japan (Tsuyoshi UCHIDA, JNES)</li> <li>• A Study on the Risk-Informed Performance Indicators and Thresholds for Graded Regulation (Yong Suk LEE, Future and Challenge)</li> </ul>
13:50~15:50 (Diamond Hall B)	Technical Session I-B : PSA Methodology <ul style="list-style-type: none"> <li>• Truncation Error Evaluation for a PSA Model (Jong-Soo CHOI, KINS)</li> </ul>

Time	Agenda
13:50~15:50 (Diamond Hall B)	<ul style="list-style-type: none"> <li>• Usage of Information Criterion for Reducing Modeling Uncertainty in Reactor Safety (Akira YAMAGUCHI, Osaka Univ.)</li> <li>• The Development of a 3-D Risk Matrix for Qualitative Maintenance Risk Management (Pi-Lin HSU, INER)</li> <li>• Some Approaches for Quantification of Important Factors in PSA for Digital I&amp;C Systems (Man Cheol KIM, KAERI)</li> <li>• Effect Estimation of an Automatic Periodic Tests in NPP Digital I&amp;C Systems by Fault Injections (Seung Jun LEE, KAERI)</li> <li>• An Approach for Accident Event Sequence Analysis by Different Phases in Nuclear Power Plant (Yu YU, INET)</li> </ul>
13:50~15:50 (Sapphire Hall)	<p>Technical Session I-C : Severe Accident Management &amp; Level-3 PSA (I)</p> <ul style="list-style-type: none"> <li>• Development of Simplified Risk Measure Based on Dose (SiRD) (Dong-ha KIM, KAERI)</li> <li>• The Development of a Relationship Framework between LERF and Level-3 PSA (Kyungmin KANG, KINS)</li> <li>• Risk-informed Evaluation of Off-site Response Planning for Nuclear Emergencies (Toshimitsu HOMMA, JAEA)</li> <li>• Optimization of Relocation Decisions using the Method of Probabilistic Accident Consequence Assessment (Shogo TAKAHARA, JAEA)</li> <li>• Development of an Off-site Risk Assessment Tool for the Risk-Informed Application (Jongtae Jeong, KAERI)</li> </ul>
15:50~16:10	Coffee Break
16:10~17:50 (Diamond Hall A)	<p>Technical Session II-A : Risk Informed Application (I)</p> <ul style="list-style-type: none"> <li>• Analysis and Evaluation of Accident Sequence Precursor (Hiroaki SHIMOZAKI, JNES)</li> <li>• Evaluation of Feasibility of RPS/ESFAS with Bypass Function Considering CDF and Reactor Trip Probability (Myung-Ki KIM, KEPRI)</li> <li>• Risk Management in the NPP (Yongho In, ERIN)</li> <li>• Tech. Spec. Optimization Study for the RPS/ESFAS of Kori Unit 2 (Bag Soon CHUNG, KEPRI)</li> </ul>
16:10~17:50 (Diamond Hall B)	<p>Technical Session II-B : PSA Softwares</p> <ul style="list-style-type: none"> <li>• Development of a Probabilistic Safety Assessment Tool for Evaluating the Designs and Operations of Waste Management Facilities (Jongtae JEONG, KAERI)</li> <li>• Development of GSALab Computer Code for Global Sensitivity Analysis (Toshimitsu HOMMA, JAEA)</li> <li>• Development of Condition Monitoring and Diagnosis System for Standby Diesel Generator (Kwang-Hee CHOI, KEPRI)</li> <li>• Development of a Web-based Risk Monitoring System (Myungsu KIM, KHNP)</li> <li>• The Pilot Application of ORION Program (Hae Cheol OH, KEPRI)</li> </ul>
16:10~17:50 (Sapphire Hall)	<p>Technical Session II-C : Severe Accident Management &amp; Level-3 PSA (II)</p> <ul style="list-style-type: none"> <li>• Severe Accident and Accident Management Study at JNES (Masao OGINO, JNES)</li> <li>• Recent Regulatory Activities Related to Severe Accident Management in Korea (Tae-hyeong KIM, KINS)</li> <li>• Consideration of Source Term for High-Temperature Gas-Cooled Reactor Plant Emergency Plan (Tao LIU, INET)</li> <li>• Probabilistic Estimation of the Early and Cancer Fatality Risks at the Korean Nuclear Power Plants (Do Sam KIM, KINS)</li> <li>• Implementation of a Molten Core Cooling Strategy in a Severe Accident Management Guideline (JinHo SONG, KAERI)</li> </ul>
18:30~21:00 (Emerald Hall)	Banquet

# I. 행사일정 및 워크숍 안내

Time	Agenda
5/19 (Tue)	
09:00~10:20 (Diamond Hall A)	<p>Technical Session III-A : PSA &amp; Applications</p> <ul style="list-style-type: none"> <li>• Upgrade of Internal Events PSA Model Using the AESJ Level-1 PSA Standard for Operating State (Eisuke SATO, TEPCO SYSTEMS Corp.)</li> <li>• Development of Web-Based Plant Reliability Data Information System and its Application (Seok Won HWANG, KHNP)</li> <li>• Safety Implications of Maintenance Rule with TMI-2 Perspective (Inn Seock KIM, ISSA Technology)</li> </ul>
09:00~10:20 (Diamond Hall B)	<p>Technical Session III-B : Fire PSA</p> <ul style="list-style-type: none"> <li>• Development of Fire PSA Database (Dongkyu KIM, KOPEC)</li> <li>• Development of the Fire PSA Methodology and the Fire Analysis Computer Code System (Katsunori OGURA, JNES)</li> <li>• A Comparative Study of Two Quantification Algorithms and Importance Measures in a Fire PRA Model (Kilyoo KIM, KAERI)</li> <li>• Improved Fire-PSA with Quantitative Fire Risk Assessment (Moon-Hak JEE, KEPRI)</li> </ul>
09:00~10:20 (Sapphire Hall)	<p>Technical Session III-C : Severe Accident &amp; Safety Analysis (II)</p> <ul style="list-style-type: none"> <li>• Evaluation of THAI-HM2 Test with MELCOR Code (Jung-Jae LEE, KINS)</li> <li>• MELCOR Improvement and Applications (Masao OGINO, JNES)</li> <li>• Validation of MELCOR Iodine Chemistry Model with BIP Test Data (Dong Ju JANG, KINS)</li> <li>• Analysis of RCS Feed &amp; Bleed Operation to Mitigate a Severe Accident for OPR1000 (Rae-Joon PARK, KAERI)</li> </ul>
10:20~10:40	Coffee Break
10:40~12:20 (Diamond Hall A)	<p>Technical Session IV-A : Gen-IV &amp; Non NPP Applications</p> <ul style="list-style-type: none"> <li>• Outline of Risk Assessment Study for Fuel Cycle Facilities (Yoshinori UEDA, JNES)</li> <li>• Preparation of Component Failure Rates for Reprocessing Plant PSA (Hitoshi TAMAKI, JAEA)</li> <li>• Dynamic Safety Assessment in the Very High Temperature Reactor (VHTR) using the DRSM (Tae-Ho WOO, Seoul National Univ.)</li> <li>• Continuous Markov Chain Monte Carlo Method for Level 2 PSA of Liquid Metal Reactor (Akira YAMAGUCHI, Osaka Univ.)</li> <li>• Analysis of Accident Scenarios for the Development of Probabilistic Safety Assessment Model for the SFR (Tae Woon KIM, KAERI)</li> </ul>
10:40~12:20 (Diamond Hall B)	<p>Technical Session IV-B : Maintenance Rule</p> <ul style="list-style-type: none"> <li>• Risk Importance Determination Process of CANDU Maintenance Rule Function (Mi Ro SEO, KEPRI)</li> <li>• Development of the Tool Infrastructure for Implementation of the Maintenance Rule (Chung-Kung LO, INER)</li> <li>• Insights on the Application of a Standard Program for Maintenance Effectiveness Monitoring (Dong Wook JERNG, KHNP)</li> <li>• Implementation of Maintenance Rule for CANDU Units (Myung-Ki KIM, KEPRI)</li> <li>• Performance Criteria Development for PHWR Maintenance Rule (Mi Ro SEO, KEPRI)</li> </ul>
10:40~12:20 (Sapphire Hall)	<p>Technical Session IV-C : Severe Accident &amp; Safety Analysis (II)</p> <ul style="list-style-type: none"> <li>• A Preliminary Analysis of Safety Depressurization Capability for Shin-Ulchin Units 1&amp;2 (Han-Chul KIM, KINS)</li> <li>• Analyses of Containment Source Term of BWR5 considering Iodine Chemistry in Suppression Pool with TH (Jun ISHIKAWA, JAEA)</li> <li>• Comparison of ISAAC T/H Behavior with CATHENA for CANDU Large LOCAs (Dong-ha KIM, KAERI)</li> <li>• Development of T/H Uncertainty Analysis S/W MOSAIQUE (Ho-gon LIM, KAERI)</li> <li>• Thermal-Hydraulic Analysis for LBLOCA in OPR1000 and Application of RSM for PSA (Tae-jin KIM, Seoul National Univ.)</li> </ul>

Time	Agenda
12:20~13:40	Lunch
13:40~15:00 (Diamond Hall A)	Technical Session V-A : Risk Informed Application (II) <ul style="list-style-type: none"> <li>• Current Status of RIR Implementation in Korea (Namduk SUH, KINS)</li> <li>• Shutdown Risk Monitoring in TEPCO (Hidetaka IMAI, TEPCO)</li> <li>• Increase Safe and Operating Reliability by Development of Planned Outage Process Standardization (Jonghyuck PARK, KEPRI)</li> <li>• Safety and Economic Results of Risk-Informed Inservice Inspection Program at Ulchin Units 3&amp;4 (Bag Soon CHUNG, KEPRI)</li> </ul>
(Diamond Hall B)	Technical Session V-B : Seismic PSA <ul style="list-style-type: none"> <li>• Study on Effects of Correlative Degree of Component Damages on Seismic PSA during Component Outage (Yasuhiro KATAGIRI, NEL)</li> <li>• Recent R&amp;D Activities on Seismic PSA in KAERI (In-Kil CHOI, KAERI)</li> <li>• The Radiological Consequence Analysis for Seismic Events in BWR Plants (Kyoko FUNAYAMA, JNES)</li> <li>• A Study on the Uncertainty of Seismic Hazard in the PSHA for a Korean NPP Site (HyunMe RHEE, KAERI)</li> </ul>
15:00~15:30	Coffee Break
15:30~16:30 (Emerald Hall)	Special Session <ul style="list-style-type: none"> <li>• Status of PSA in Each Country or Proposal for Cooperation (China, Japan, Korea, Taiwan)</li> </ul>
16:30~17:30 (Emerald Hall)	Panel Discussion
17:30~18:00 (Emerald Hall)	Closing Session <ul style="list-style-type: none"> <li>• Workshop Summary &amp; Closing Remarks Prof. Un-Chul LEE, Seoul National Univ. Prof. Mitsumasa HIRANO, Tokyo City Univ.</li> </ul>
5/20 (Wed)	
09:00~12:30	Technical Tour

• **Remarks :**

- ▶ Registration Fee : 100,000 Won
- ▶ Sponsor : MEST
- ▶ Inquiry : Sun Yeong Choi / KAERI / +82-42-868-8372 / sychoi@kaeri.re.kr

# I. 행사일정 및 워크숍 안내



## The 4th Korea-China Workshop on Nuclear Reactor Thermal Hydraulics

- Date : May 18 ~ 20, 2009
- Place : Haevichi Hotel & Resort, Crystal Hall A~D (Winter Garden B1)
- Organizer : Korean Nuclear Society, Division of Thermal Hydraulics Safety, Korea Atomic Energy Research Institute, Nuclear Power Institute of China (NPIC)

Time	Agenda
<b>May 18 (Mon)</b>	
13:30~14:30	Opening & Plenary Session
14:30~18:00	Technical Session (1, 2)
19:00~21:00	Banquet
<b>May 19 (Tue)</b>	
09:00~12:00	Technical Session (3, 4)
12:00~13:00	Lunch
13:00~18:00	Technical Tour
<b>May 20 (Wed)</b>	
09:00~12:00	Technical Session (5, 6)
12:00~12:30	Closing Session

### • Remarks :

- ▶ Participation Fee : 일반(15만원), 학생(8만원)
- ▶ Sponsor : 일진에너지, 미래와 도전, CD-Adapco
- ▶ Inquiry : Kyoung Ho Kang / KAERI / +82-42-868-2665 / khkang@kaeri.re.kr


**HeLimeRT 2009 Part-II  
5th Workshop on Materials for Heavy Liquid Metal Coolant and Related Technologies**

- Date : May 18 ~ 20, 2009
- Place : Haevichi Hotel & Resort, Crystal Hall E (Winter Garden B1)
- Organizer : Korean Nuclear Society, NUTRECK(Nuclear Transmutation Reacerch Center of Korea)

Time	Agenda
<b>May 18 (Mon)</b>	
13:30~14:00	Opening & Welcome Speech
14:00~16:00	Plenary
16:30~18:00	Technical Session 1
19:00~	Banquet
<b>May 19 (Tue)</b>	
09:00~10:30	Technical Session 2
11:00~12:00	Technical Session 3
12:00~13:00	Lunch
13:30~15:00	Technical Session 4
15:30~17:30	Technical Session 5 and Summary
<b>May 20 (Wed)</b>	
16:00~18:00	5th OECD-NEA LACANES Meeting

**• Remarks :**

- ▶ Participation Fee : Free
- ▶ Sponsor : KAERI, KNS
- ▶ Inquiry : Cho, Jae Hyun / NUTRECK, SNU / +82-2-880-7200 / jerry04@snu.ac.kr

# I. 행사일정 및 워크숍 안내



## NUPYRO 2009 (International Workshop on Nuclear Pyroprocessing)

- Date : May 19 ~ May 20, 2009
- Place : Haevichi Hotel & Resort, Ruby Hall (Resort 1F)
- Organizer : KNS, KAERI, NUTRECK, KURRI

### [May 19, 2009]

Time	Agenda
09:00~09:10	Opening Address, Kun Jai Lee(KAIST)
09:10~09:20	Welcome Speech, Jong In Lee (KNS President)
09:20~12:00	Plenary Session
12:00~13:00	Lunch
13:00~13:20	Technical Session 1
14:50~16:10	Technical Session 2
16:40~18:00	Technical Session 3
19:00~	Banquet

### [May 20, 2009]

Time	Agenda
09:00~10:20	Technical Session 4
10:40~12:00	Technical Session 5

### • Remarks :

- ▶ Participation Fee : Free
- ▶ Sponsor : KNS
- ▶ Inquiry : Judong Bae / SNU / +82-2-880-7200 / jd32@snu.ac.kr


**IAEA Safety Forum**

- Date : May 20, 2009
- Place : Haevichi Hotel & Resort, Crystal Hall B (Winter Garden B1)
- Organizer : Korean Nuclear Society, Korea Institute of Nuclear Safety

Time	Agenda
09:30~10:10	How to Strengthening Safety Assessment Capability for Design and Operation of Nuclear Power Plants <ul style="list-style-type: none"> <li>• Opening (Chairman, M. El-Shanawany)</li> <li>• Introduction of Participants</li> <li>• Background and Objectives (C. O. Park)</li> </ul>
10:10~10:50	<ul style="list-style-type: none"> <li>• Development of Regional Capacity Building System in IAEA (C. O. Park)</li> <li>• Development of Nuclear Safety Infrastructure and Regional Capacity Building System in Asia (S. Lee)</li> </ul>
10:50~11:20	<ul style="list-style-type: none"> <li>• Coffee Break</li> </ul>
11:20~12:30	<ul style="list-style-type: none"> <li>• National Presentation on National Nuclear Development Program (Vietnam, Indonesia, Malaysia, Thailand, Philippine)</li> </ul>
12:30~14:00	<ul style="list-style-type: none"> <li>• Lunch</li> </ul>
14:00~16:00	<ul style="list-style-type: none"> <li>• Discussion on How to Strengthening National Safety Assessment Capability</li> </ul>