

Organizing Committee

Jin Ho SONG (KAERI)
Severe Accident and PHWR Safety Research Division
e-mail: dosa@kaeri.re.kr
phone: +82 42 868 2850

Jean Michel BONNET (IRSN)
Severe Accident Department
e-mail: jean-michel.bonnet@irsn.fr
phone: +33 4 42 19 93 59

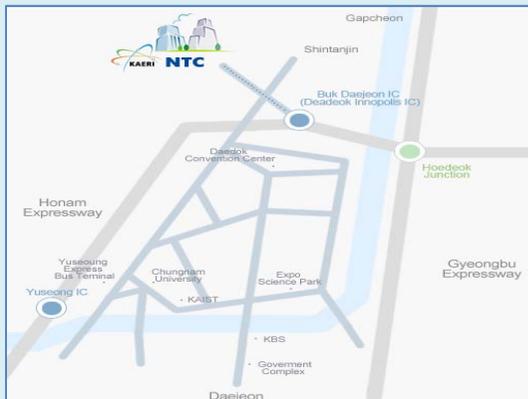
Hwan Yeol KIM (KAERI)
Severe Accident and PHWR Safety Research Division
e-mail: hykim1@kaeri.re.kr
phone: +82 42 868 8946

Kwang Soon HA (KAERI)
Severe Accident and PHWR Safety Research Division
e-mail: tomo@kaeri.re.kr
phone: +82 42 868 8653

Directions to KAERI

From Incheon International Airport by Airport Limousine

Daejeon is located approximately 200 Km (about 125 miles) south of the Incheon International Airport. The airport limousine bus to Daejeon departs every 20-40 minute at bus stop 9D of Passenger Terminal 1st floor (arrival area). It takes about 2.5 hours to the MANNAM Square stop, just after passing Buk-Daejeon (Daeduk Valley) toll gate. KAERI is located within a walking distance of about 200 meters.



Challenging Issues on Fission Product and Hydrogen for Nuclear Reactor Safety



September 10-11, 2013

International Nuclear Training and Education Center (INTEC)

KAERI, Daejeon, Korea

Hosted by

Severe Accident and PHWR Safety
Research Division
Korea Atomic Energy Research Institute

Korean Nuclear Society



Invitation

Topics of the workshop are focused on the hydrogen risk and fission product behavior, the importance of which was highlighted by the occurrence of the Fukushima accident. The workshop is intended to review the state of the art for the understanding of the phenomena and to discuss the prospects for the development of innovative mitigation measures to solve outstanding risk.

I cordially welcome international experts from France, Germany, and USA, and domestic participants. I hope the workshop can answer some of serious questions on the nuclear reactor safety against the severe accident. I am confident that the participants will certainly do.

Thank you.

Won Pil BAEK

Vice President, Nuclear Safety Research Department
Korea Atomic Energy Research Institute

Participating Organizations

Atomic Energy of Canada Limited (AECL), Canada
Radioprotection and Nuclear Safety Institute (IRSN), France
Becker Technologies GmbH, Germany
University of Missouri-Columbia, USA
Purdue University, USA
Korea Institute of Nuclear Safety (KINS), S. Korea
Korea Hydro & Nuclear Power Co., LTD (KHNP), S. Korea
Korea Advance Institute of Science and Technology (KAIST), S. Korea
Korea Atomic Energy Research Institute (KAERI), S. Korea

Program

Tuesday, 10 Sept. 2013

Welcome Address

13:20 ~ 13:30 President Y.H. JUNG (KAERI)

Keynote Speech

13:30 ~ 14:00 Prospect of Nuclear Reactor Safety after Fukushima Accident
(S.H. CHANG, KAIST)

Hydrogen Safety (I) (Chairperson: S.W. HONG, KAERI)

14:00 ~ 14:30 Hydrogen Safety in NPP (S. REVANKAR, Purdue Univ.)

14:30 ~ 15:00 Overview on R&D Activities Related to Hydrogen Risk
(A. BENTAIB, IRSN)

15:00 ~ 15:30 Severe Accident Mitigation Measures and Issues (J.H. SONG, KAERI)

15:30 ~ 16:00 *Coffee Break*

Source Term Issues (Chairperson: K.S. HA, KAERI)

16:00 ~ 16:30 Aerosol Related Tests in THAI Facility (G. POSS, Becker Tech.)

16:30 ~ 17:00 Fission Product Release from CANDU Fuel
(R. Dickson, AECL)

17:00 ~ 17:30 Paths to Aerosol Removal and Filtration in Nuclear Facilities
(S. LOYALKA, Missouri-Columbia Univ.)

17:30 ~ 18:00 Source Term Evaluation: Gains Obtained during Last Decade and Remaining Issues (D. VOLA, IRSN)

18:30 ~ 20:30 *Welcome Dinner*

Wednesday, 11 Sept. 2013

Hydrogen Safety (II) (Chairperson: H.Y. KIM, KAERI)

08:30 ~ 09:00 Severe Accident Mitigation: Rationales, Open Issues and Associated R&D Programs (D. VOLA, IRSN)

09:00 ~ 09:30 Hydrogen Related Tests in THAI Facilities (S. GUPTA, Becker Tech.)

09:30 ~ 10:00 Hydrogen Mitigation Strategy and Evaluation of PAR in Korean Nuclear Power Plants (H.T. KIM, KHNP)

10:00 ~ 10:30 Evaluation of PARs Impact on Hydrogen Risk in Reactor Containment
(A. BENTAIB, IRSN)

10:30 ~ 11:00 Regulatory Experience on Hydrogen Safety of APR1400 Plants
(J.J. LEE, KINS)

11:00 ~ 11:20 *Coffee Break*

Panel Discussion (Chairperson: W.P. BAEK, KAERI)

11:20 ~ 12:30 Prospects of Post-Fukushima Severe Accident Mitigation Measures