

Joint Workshop with the 1st Asian Conference on Ergonomics and Design 2014 (ACED 2014)

# NUCLEAR SAFETY CULTURE WORKSHOP

## "A Systems Approach to Safety Culture"

*Continuous Competent Cultural Way: Korean Nuclear 3C Way for Strengthening Safety Culture*



May 20 (Tue) - 24 (Sat), 2014  
Ramada Plaza Hotel Jeju, South Korea



# 1. Introduction

The Korea Atomic Energy Research Institute (KAERI) is making, through this workshop, efforts to build up a robust monitoring system to strengthen safety culture of nuclear organizations and to develop promptly applicable technologies for enhancing safety culture competencies of them. The workshop aims to discuss how to develop a public monitoring system and competency enhancement technologies. Also, through this workshop, we hope nuclear organizations may share experiences and best practices of how to strengthen nuclear safety culture.

## 2. Workshop Summary

- Main Theme: A systems approach to safety culture
- Duration: May 20 to May 24, 2014
- Venue: Ramada Hotel, Jeju island, South Korea
- Hosting Organizations: KAERI, ESK
- Co-hosting Organizations: DAU, HYU, IJU, KAIST, KHU, SUNY-K
- Sponsoring Organizations: MOTIE, KETEP, KHNP, KEPCO-E&C, KEPCO-NF, DOOSAN, PONUTEC, BNF
- Guest Speakers: 4 foreign experts, 3 domestic experts
  - Monica Haage, IAEA / Sweden
  - Germaine Watts, IOS / Canada
  - Sally White, DevonWay / USA
  - Hiroko Koike, NRA / Japan
  - Tae-hoon Moon, CAU / Korea
  - Cheon-yong Kim, HWU / Korea
  - Nam-seong Ahn, KETEP / Korea
- Expected Attendance: about 100 persons
- Programme Configuration: 5 days workshop
  - May 20: Preliminary Meeting (Eng.)
  - May 21: Safety Culture Tutorial (Eng.)
  - May 22: Safety Culture Dialogue (Eng.)
  - May 23: Safety Culture Special Session (Kor.)
  - May 24: Closing with ACED (Eng.)
- Participation
  - Registration for the safety culture workshop & ACED 2014: <http://www.aced2014.org>
  - Specially, participants who want to register for the 'Safety Culture Tutorial' should be complete the Participation Form (see Attachment A) as soon as possible and send it to the workshop secretariat by e-mail ([sakilkim@kaeri.re.kr](mailto:sakilkim@kaeri.re.kr)).

### 3. Programme Summary

Schedule	Programme	Format	Venue
May 20, 2014 (13:30~20:00)	<b>Preliminary Meeting</b> Host: Yong-hee Lee, KAERI Participants: International specialists	Dialogues and Discussions (Eng.)	Ara Hall
	Opening Reception	Buffet	Undecided
May 21, 2014 (08:30~21:00)	<b>Safety Culture Tutorial</b> Chair: Yong-hee Lee, KAERI Speakers: International specialists	Presentations (Eng.)	Ballroom 2
	Welcome Reception (with ACED)	Buffet	Ballroom 1
May 22, 2014 (08:30~21:00)	<b>Safety Culture Dialogue</b> Chair: Yong-hee Lee, KAERI Speakers: SC specialists	Presentations (Eng.)	Ballroom 4
	Banquet (with ACED)	Buffet	Undecided
May 23, 2014 (08:30~21:00)	<b>Safety Culture Special Session</b> Chair: Yong-hee Lee, KAERI Speakers: Project officers	Presentations (Kor.)	Ballroom 4
	Dinner	Undecided	Undecided
May 24, 2014 (10:30~12:00)	Closing	Ceremony (Eng.)	Ballroom 1

## 4. Detailed Programme

- Day 1 (Tuesday, May 20, 2014): Preliminary Meeting (Eng.)

Time	Topic	Venue
13:30 ~ 14:00	Registration	Ara Hall
14:00 ~ 14:10	Opening of the meeting Yong-hee Lee, KAERI	
14:10 ~ 14:40	(Presentation) Development of a public monitoring system and competency enhancement technologies for strengthening Korean safety culture in nuclear organizations Yong-hee Lee, KAERI	
14:40 ~ 15:00	Coffee break	
15:00 ~ 17:00	(Dialogues and Discussions) Successful strategies to perform the safety culture project in Korea? Host: Yong-hee Lee, KAERI  Participant: Monica Haage, IAEA Germaine Watts, IOS Sally White, DevonWay (undecided) Hiroko Koike, NRA Moo-sung Jae, HYU Poog-hyun Seong, KAIST Seong-nam Byun, KHU Yong-seon Choi, IJU Sang-mun Shin, DAU	Ara Hall
17:00 ~ 17:30	General Project Manager's reflections and Closure Yong-hee Lee, KAERI	Undecided
18:00 ~ 20:00	Opening reception	

● Day 2 (Wednesday, May 21, 2014): Safety Culture Tutorial (Eng.)

Chair: Yong-hee Lee, KAERI

Time	Topic	Venue
08:30 ~ 09:30	Registration	
09:30 ~ 10:30	IAEA safety culture self-assessment methods Monica Haage, IAEA	Ballroom 2
10:30 ~ 10:50	Coffee break	
10:50 ~ 11:50	IAEA safety culture independent assessment methods Monica Haage, IAEA	
11:50 ~ 13:00	Lunch	Undecided
13:00 ~ 14:00	How to create a culture improvement programme Germaine Watts, IOS	Ballroom 2
14:00 ~ 14:20	Coffee break	
14:20 ~ 15:20	Tools and methods for improving culture Germaine Watts, IOS	
15:20 ~ 15:40	Coffee break	
15:40 ~ 17:40	Practice: Cultural observation Monica Haage, IAEA Germaine Watts, IOS	
17:40 ~ 18:00	Coffee break	
18:00 ~ 18:30	General Project Manager's reflections and Closure Yong-hee Lee, KAERI	
19:00 ~ 21:00	Welcome Reception (with ACED)	Ballroom 1

● Day 3 (Thursday, May 22, 2014): Safety Culture Dialogue (Eng.)

Chair: Yong-hee Lee, KAERI

Time	Topic	Venue
08:30 ~ 09:00	Registration	Ballroom 4
09:00 ~ 09:10	(Opening Ceremony) Dr. Nam-seong Ahn, KETEP (not confirmed)	
09:10 ~ 10:00	IAEA's approach to safety culture Monica Haage, IAEA	
10:00 ~ 10:30	Coffee break	
10:30 ~ 12:00	ACED opening ceremony and opening plenary	Ballroom 1
12:00 ~ 13:30	Lunch	Undecided
13:30 ~ 14:20	Safety leadership, teams and safety culture Germaine Watts, IOS	Ballroom 4
14:20 ~ 15:00	System dynamics modeling, analyzing for safety culture Tae-hoon Moon, CAU (not confirmed)	
15:00 ~ 15:30	Coffee break	
15:30 ~ 16:20	DevonWay Case: Culture way - Advances safety culture process management Sally White (undecided)	Ballroom 4
16:20 ~ 17:10	Aviation safety culture Cheon-yong Kim, HWU	
17:10 ~ 18:00	Approach to safety culture promoting activities in Japan Hiroko Koike, NRA (not confirmed)	
19:00 ~ 21:00	Banquet (with ACED)	Undecided

● Day 4 (Friday, May 23, 2014): Safety Culture Special Session (Kor.)

Chair: Yong-hee Lee, KAERI

Time	Topic	Venue
08:30 ~ 09:00	Registration	
09:00 ~ 09:30	Development of a public monitoring system and competency enhancement technologies for strengthening Korean safety culture in nuclear organizations Yong-hee Lee, KAERI	Ballroom 4
09:30 ~ 10:00	Organizational safety culture simulation in nuclear power plants Yeong-min Oh, SUNY-K	
10:00 ~ 10:30	Coffee break	
10:30 ~ 11:00	Integrated public communication strategies for safety culture Dong-seop Han, HYU	Ballroom 4
11:00 ~ 11:30	Development of methodology for assessing safety culture index and its application Moo-sung Jae, HYU	
11:30 ~ 12:00	Safety culture monitoring indicators and monitoring system Tong-il Jang, KAERI	
12:00 ~ 13:30	Lunch	
13:30 ~ 14:00	Safety culture assessment system Poog-hyun Seong, KAIST	Ballroom 4
14:00 ~ 14:30	Safety culture competency management system and training toolkit Sa-kil Kim, KAERI	
14:30 ~ 15:00	Safety culture competency support systems Yeon-ju Oh, KAERI	
15:00 ~ 15:30	Coffee break	
15:30 ~ 16:00	Safety LFA program and communication support system Seong-nam Byun, KHU	Ballroom 4
16:00 ~ 16:30	Dashboard and process management system for safety culture monitoring Yong-seon Choi, IJU	
16:30 ~ 17:00	Development of safety-quality assurance monitoring system in nuclear power plants Sang-mun Shin, DAU	
17:00 ~ 17:30	Development of safety culture hazard factors analyzer in nuclear power plants Yong-hee Lee, Gowon	
17:30 ~ 18:00	General Project Manager's reflections and Closure Yong-hee Lee, KAERI	
18:30 ~ 21:00	Dinner	

- Day 5 (Saturday, 24 May 2014): Closing (Eng.)

Time	Topic	Venue
10:30 ~ 12:00	Closing ceremony with ACED	Ballroom 1

## 5. Venue Information

### Ramada Plaza Hotel Jeju



Ramada Plaza Jeju Hotel, situated at a business center, offers guests deluxe hospitality with unparalleled access to Jeju Airport. With these conveniences, it will focus on conventions, and has all the necessary means available to host international conferences, meetings, and presentations. The ballroom, which has been praised as a balance of beauty and skilled staff, can hold up to 1,200 guests and is ready to provide the best service available for any event. Ramada Plaza Jeju Hotel has all the tools needed to be a top tier business-resort hotel.

With a combination of luxury, technology and value for money, Ramada Plaza Hotel is redefining or of the nearby sea and the sunlight that illuminates the guest rooms serve to invigorate visitors. The building, reminiscent of a young woman, was inspired by the luxurious Silja cruise ship line and makes one feel as if one is out to sea.

The hotel structure itself is full of the architectural skill and taste and boasts a balance of great beauty and a sense of completion. A work of Indesign company in United States, the interior successfully conveys an atmosphere of luxury, grandness and intellectual, cultural and artistic mastery. It will quickly become a prominent part of Jeju's history and skyline.

With the feel of a gracious home, the 380 spacious guestrooms are decorated with elegant furniture, and are divided into rooms with ocean views, harbor views, and mountain views. Guestrooms for non-smokers and handicapped persons are also available, allowing its customers a wide range of choices. To address customer's needs as a business-resort hotel, it has also included separate bedrooms for children.

Complementing the posh rooms, seven restaurants are on the premises to offer a wide range of cuisine. Depending on a customer's appetite, they can indulge in just about every kind of Eastern and Western food. The full spectrum of hot and cold Asian and western dishes and dessert carousel is available at one dining establishment or another.

Finally, the Ramada Plaza Jeju provides a wealth of recreational facilities including indoor and outdoor



swimming pools, a spa, a sauna and gymnasium fully staffed with professional instructors to ensure guests can make the most of the facilities. The instructors provide individualized advice on exercising for each guest and enable guests to pursue a healthy workout program. Those who are eager to reclaim their youth just might get their wish at the Ramada Plaza Jeju, where one can pamper one's skin and rest and heal peacefully.

Vacation, beauty, travel, shopping, performances-all of these are parts of everyday living at the Ramada Plaza Jeju, where there is something for every taste and lifestyle. Customers will be able to make lifelong memories at the Ramada Plaza Jeju Hotel, will undoubtedly miss the atmosphere of this extraordinary place.

### Location

66. Topdong-Ro Jejucity, Jejudo, 690-032 Korea, Tel: +82-64-729-8100



From Jeju International Airport  
Toward Yongmoon Rotary > Hancheon Bridge >  
Seomoon Market > Turn left at the Market  
intersection >  
Go Straight toward Tapdong-Ro  
(distance: 3.8km / taxi fare: approx. 3.500 won) /  
about 10 minutes' ride)

## Jeju-Nature's Paradise in the North Pacific



Jeju Island has a mild oceanic climate throughout the year with the smallest annual temperature range in South Korea. The temperature for the hottest summer months averages no more than 35.8 °C in Jeju City and 33.0 °C in Seogwipo and no less than -2.3°C in Jeju City and -2.7 °C in Seogwipo for winter.

The island is 73km wide and 31km long with a total area of 1,848.85km<sup>2</sup>. Jeju, the largest island in South Korea, came into existence 700 to 1,200 thousand years ago when lava spewed from a sub-sea volcano and surfaced above the waters. Then 100 to 300 thousand years ago, another volcanic eruption formed Mt. Halla. The final volcanic eruption that took place approximately 25 thousand years ago created the crater lake, Baekrok-dam, at the summit of the mountain.

Mt. Halla rises in the center of Jeju to 1950m above sea level. The rest of the island slopes down from its summit and is covered with dark gray volcanic rocks and volcanic ash soil. Relatively isolated from the rest of the world, the island's nature has been well preserved in its prehistoric state. That is why traveling to Jeju is to travel back in time. Jeju's natural environment has been preserved as best as possible. The fantastically shaped

rocks decorating the seashores, the hundreds of Oreums(secondary volcanos) and the rarest species of flora and fauna around the Baekrok-dam lake are all treasures waiting to be discovered by visitors. One cannot see Jeju unless one looks. It is like seeing only trees before entering a forest.

This website introduces Jeju's myths, shamanism, Jeju people's sentiments about rocks and history as well as leisure activities including art, golf, horse-riding, wind surfing and hiking.

In addition, with the touch of fingertips one can find information about restaurants, night life, shopping and transportation? We, Jeju Islanders, hope that every person who visits the island goes back home with good memories about Jeju.

## **6. More Information**

### **ACED 2014 conference management system**

Site: <http://www.aced2014.org>

**Attachment A**

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## "A Systems Approach to Safety Culture"

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Ramada Plaza Hotel Jeju, South Korea

### PARTICIPATION FORM for Safety Culture Tutorial

Submission Deadline: 10 May 2014

Family Name:	Given Names:	MR (       ) MS (       )
Institution:	Full Address:  Mobile Phone:  E-mail:	
Nationality:	Designating Government or Organization:	