

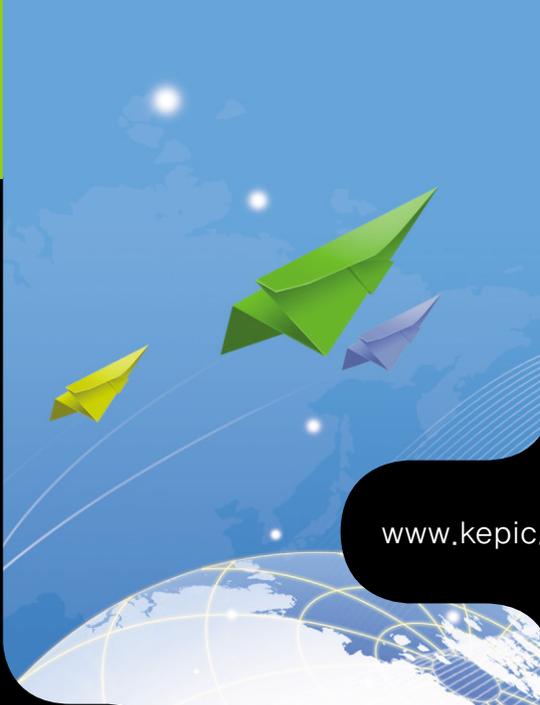
# 2009 KEPIC-Week

## Final Program

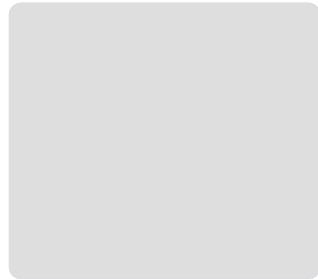
- August 25~28, 2009
- Hyundai Hotel Gyeongju, Republic of Korea

**KEPIC, The Future of  
Electric Power Industry !**



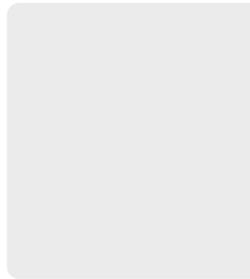


[www.kepic.or.kr](http://www.kepic.or.kr)





# KEPIC, The Future of Electric Power Industry !



The background is a vibrant green with a fine, fibrous texture, resembling grass or paper. Several water droplets of various sizes are scattered across the surface, some in sharp focus and others blurred. In the top left corner, a large, semi-transparent white circle partially overlaps the edge of the page. The logo 'KEPIC Week' is positioned within this circle. 'KEPIC' is in a large, bold, serif font, and 'Week' is in a smaller, lowercase serif font with a horizontal line underneath it.

KEPIC Week

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## General Information



- ▶ **Title** : 2009 KEPIC-Week  
(<http://www.kepic.or.kr/>)
  
- ▶ **Catch Phrase** : KEPIC, The Future of Electric Power Industry !
  
- ▶ **Date** : August 25~28, 2009
  
- ▶ **Venue** : Hyundai Hotel Gyeongju, Republic of Korea  
(<http://www.hyundaihotel.com/gyeongju/>)
  
- ▶ **Registration Fee** : 170,000 Korea Won(₩) per person
  - Payment is acceptable only cash at the registration desk
  - Speaker/Presenters are free of charge, especially
  
- ▶ **Main Events**
  - Technical Committee Meetings
  - Technical Sessions
  - Commemorative Ceremony
  - KEPIC Certification Holders' Seminar
  - Workshop for Nuclear International Standardization
  - Workshop for KEPIC Application in operating NPPs
  - KEPIC Equipment Qualification Workshop
  - International(Plenary) Session with Special Lecture
  - Exhibition for Electric Power Industry
  - Tour Programs
  - Wide Banquet

※ <http://www.kepic.or.kr>

# 2



## Program Layout



### 25 August.



Time	Event
15:00 ~ 17:00	Main Committee of KEPIC-MG (Sapphire)
15:00 ~ 17:00	Electrical and I&C Main Committee (Maple)
15:00 ~ 18:00	Subcommittee of KEPIC-MN (Opal)
17:30 ~ 19:00	Subcommittee of Fossil Quality System (Sapphire)
17:00 ~ 18:00	Registration

### 26 August.



Time	Event						
08:30 ~	Registration						
09:20 ~ 12:00	<table border="1"> <tr> <td>Session Q1 KEPIC Certification Holders' Seminar (Convention Hall A)</td> <td>Session MN1 Nuclear Mechanical Session (Convention Hall B)</td> <td>Session E1 Electrical and I&amp;C Session (Convention Hall C)</td> <td>Session MG1 General Mechanical Session (Diamond Hall)</td> <td>Session N1 Workshop for KEPIC Application in Operating NPPs (Jade)</td> <td>Session FP1 Fire Protection Session (Sapphire)</td> </tr> </table>	Session Q1 KEPIC Certification Holders' Seminar (Convention Hall A)	Session MN1 Nuclear Mechanical Session (Convention Hall B)	Session E1 Electrical and I&C Session (Convention Hall C)	Session MG1 General Mechanical Session (Diamond Hall)	Session N1 Workshop for KEPIC Application in Operating NPPs (Jade)	Session FP1 Fire Protection Session (Sapphire)
Session Q1 KEPIC Certification Holders' Seminar (Convention Hall A)	Session MN1 Nuclear Mechanical Session (Convention Hall B)	Session E1 Electrical and I&C Session (Convention Hall C)	Session MG1 General Mechanical Session (Diamond Hall)	Session N1 Workshop for KEPIC Application in Operating NPPs (Jade)	Session FP1 Fire Protection Session (Sapphire)		
12:00 ~ 13:00	Lunch						
13:00 ~ 17:20	A1 : Plenary Session (Convention Hall)						
17:20 ~ 18:00	Commemorative Ceremony (Convention Hall)						
18:00 ~ 18:40	Exhibition Booth Tour & Coffee Break (Convention Lobby)						
18:40 ~ 20:30	Wide Banquet (Convention Hall)						

# 2



## Program Layout

### 27 August.



Time	Event					
08:30 ~	Registration					
09:20 ~ 12:00	Session Q2 Quality Assurance Session (Convention Hall A)	Session MN2 Nuclear Mechanical Session (Convention Hall B)	Session E2 KEPIC Equipment Qualification Workshop I (Convention Hall C)	Session MG2 General Mechanical Session (Diamond Hall)	Session N2 Workshop I for Nuclear International Standardization (Jade)	Session S1 Structure Session (Sapphire)
	12:00 ~ 13:00 Lunch					
13:20 ~ 16:00	Session Q3 Quality Assurance Session (Convention Hall A)	Session MN3 Nuclear Mechanical Session (Convention Hall B)	Session E3 KEPIC Equipment Qualification Workshop II (Convention Hall C)	Session MG3 General Mechanical / Environmental Session (Diamond Hall)	Session N3 Workshop II for Nuclear International Standardization (Jade)	Session S2 Structure Session (Sapphire)
	16:00 ~ 18:00 Main Committee of Structure (Opal)					

### 28 August.



Time	Event
09:00 ~ 12:00	Seminar for Registered Professional Engineers (Jade)

### 26~28 August.



Time	Event
09:00 ~ 18:00	Tour Programs (1 course/daily)

# 3



## Schedule of Events

### Plenary Session(A)

Convention Hall

#### 26 August. A1 : Plenary Session



순서	행사내용
A1 - 1	The Present and Future of KEPIC in the Year 2009 (Ho-Hyun Ahn, Director of Korea Electric Association)
A1 - 2	Standardization Trend of European Pressure Vessel Codes (Stuart W. Cameron, Doosan Bobcock)
A1 - 3	Nuclear Safety Standards and the Associated U.S. NRC's Regulatory Activities (Satish Aggarwal, U.S.NRC)
	Coffee Break
A1 - 4	IEEE and the IEEE Standards Association (Malcolm Thaden, IEEE)
A1 - 5	Special Lecture 1 (Choul-Ho Yun, President of Korea Institute of Nuclear Safety)
	Coffee Break
A1 - 6	Special Lecture 2 (Ministry of Knowledge & Economy)
A1 - 7	Special Lecture 3 (SSang-Su Kim, C.E.O. of Korea Electric Power Corporation)



# 3



## Schedule of Events

### Quality Assurance Session(Q)

Convention Hall A

#### 26 August. Q1 : KEPIC Certification Holders' Seminar ●●●

Order	Subject
	Opening and Introduction
Q1 - 1	Introduction to Change of KEPIC Nuclear Accreditation Procedure in 2009
Q1 - 2	Proposal for Improvement of KEPIC Nuclear Accreditation System (Mechanical Items)
Q1 - 3	Proposal for Improvement of KEPIC Nuclear Accreditation System (Analysis of Items)
	Coffee Break
Q1 - 4	Nuclear Renaissance in U.S.A
Q1 - 5	A Case of Quality Assurance Inspection about Overseas Vendor
Q1 - 6	Change and Management of Quality Grade Policy about Operating Nuclear Station in KHNP

#### 27 August. Q2 : Quality Assurance Trend and Improvement Activity I ●●●

Order	Subject
	Opening and Introduction
Q2 - 1	Activity Status of Vendor Regulatory Inspection Working Group in MDEP
Q2 - 2	A Recent Trend of Nuclear Conformity Assessment in ASME
Q2 - 3	Instruction to Risk-Based Inspection Program
	Coffee Break
Q2 - 4	Comparison of Quality Operation through Performance Type of Nuclear Plant Construction
Q2 - 5	Process Establishment of Protective Coating Performance Surveillance about Nuclear Facility Safety Related Equipment
Q2 - 6	A Case of Application through KEPIC-EN

#### 27 August. Q3 : Quality Assurance Trend and Improvement Activity II ●●●

Order	Subject
	Opening and Introduction
Q3 - 1	Proposal of Improvement & Difficulties about the Application of NDE in KEPIC/ASME Codes
Q3 - 2	A Case of Design Report Certification in line with KEPIC
Q3 - 3	A Case of KEPIC Authorized Inspection II
Q3 - 4	A Case of KEPIC Authorized Inspection III

# 3



## Schedule of Events Nuclear Mechanical Session(MN)

Convention Hall B

### 26 August. MN1 : Application of KEPIC to NPP Design and Construction Phases ●●●

Order	Subject
	Opening and Introduction
MN1 - 1	Shin-Kori Unit 1&2 RVI Installation for KEPIC Code Application Status
MN1 - 2	Development of the Fatigue Evaluation Methodology of RV Inlet Nozzle
MN1 - 3	Analysis of In-situ Application for KEPIC Code related with Heat-Exchanger
	Coffee Break
MN1 - 4	Shin-Kori Unit 1&2 Crane Installation for KEPIC Code Application Status
MN1 - 5	Technical Basis and Domestic Situation of ASME Code Case N-755 for Nuclear Safety Class 3 Buried PE Piping
MN1 - 6	ASME Code Development and Committee Processes and a Practical Guide to Membership

### 27 August. MN2 : The Present Status and Instances of HVAC Technology for NPP ●●●

Order	Subject
	Opening and Introduction
MN2 - 1	Filter Performance Test of HANARO Isotope Manufacturing Facility
MN2 - 2	The Present Status of HEPA Filter Performance Test
MN2 - 3	Development of Bank Type Activated Carbon Loading Equipment
	Coffee Break
MN2 - 4	Regulatory Criteria and Qualification Method for Adsorption Efficiency of Impregnated Activated Carbon
MN2 - 5	Improvement Instances for HEPA filter fixing equipment and Activated Carbon Canisters
MN2 - 6	Field leakage Test for HEPA Bank and Activated Carbon Bank Using Data Logger

### 27 August. MN3 : In-Service Inspection and Performance Qualification ●●●

Order	Subject
	Opening and Introduction
MN3 - 1	Regulatory Trends of NPP In-Service Inspection
MN3 - 2	Alternative Requirements for Inspection of Reactor Head Penetration Pipe
MN3 - 3	Status of ASME Code and Korea for Weld Overlay Maintenance Technology
	Coffee Break
MN3 - 4	Risk-Informed In-Service Inspection Methods of Pipes
MN3 - 5	Development of KEPIC-MI Code Cases
MN3 - 6	Capacity Certification of Pressure Relief Valves

# 3



## Schedule of Events

### Electric and I&C Session(E)

Convention Hall C

#### 26 August. E1 : International Session about Electrical & Instrumentation Technology ●●●

Order	Subject
	Opening and Introduction
E1 - 1	Human and Organizational Factors Aspects in the Japanese Nuclear Power Plants
E1 - 2	Emerging Technical Issues in Electrical and I&C Areas in Nuclear Power Plants
E1 - 3	Support to the IAEA Members State for Excellence of Operating NPPs
	Coffee Break
E1 - 4	IEEE Activities in Smart Grid & Green Technologies
E1 - 5	Current Status for Restructuring and Updating Regulatory Standards on Light-Water-Reactor Plants in Korea

#### 27 August. E2 : KEPIC Equipment Qualification Workshop I ●●●

Order	Subject
	Opening and Introduction
E2 - 1	Research for Continuous Operation of MOV Actuator in Gori Nuclear Power Plant
E2 - 2	Equipment Qualification for I&C System and The Study of EPRI TR107330
E2 - 3	Status of PSR & EQ on KHNP NPP
	Coffee Break
E2 - 4	Development of Cable Indenting Mini-Robot and Analyzing Method
E2 - 5	The importance of EQ in Design, Operation and Life Management in Nuclear Power Plants
E2 - 6	Solution to Obsolete Equipment in Operating Nuclear Power Plants

#### 27 August. E3 : KEPIC Equipment Qualification Workshop II ●●●

Order	Subject
	Opening and Introduction
E3 - 1	Comparison of IEC 60980 to IEEE 344 for Seismic Qualification of Electric Equipments
E3 - 2	Comparison of IEC 60780 to IEEE 323 for Environmental Qualification of Electric Equipments
E3 - 3	Equipment Qualification of a Digital Safety System and EMI/RFI Technical Standards & Guides
E3 - 4	Regulatory Approaches for Maintenance Activities Related to Environmental Qualification
E3 - 5	The Study of Chinese Standards for Nuclear Industry and Equipment Qualification

# 3



## Schedule of Events Nuclear Session(N)



Jade

### 26 August. N1 : Workshop for KEPIC Application in Operating NPP's ●●●

Order	Subject
	Opening and Introduction
N1 – 1	Implementation of KEPIC Application Guide in Operating NPP's
N1 – 2	KEPIC Application Status and Good Pratices of Cost Reduction in Operating NPP's
N1 – 3	Safety Inspection Status related to KEPIC Application in Operating NPP's
	Coffee Break
N1 – 4	KEPIC Application and Reconciliation Methods During Repair and Replacement Activities
N1 – 5	Good Practices of KEPIC Application in Wolsung 3,4 NPP's
N1 – 6	Designer's KEPIC Application Guide and Status

### 27 August. N2 : Workshop I for Nuclear International Standardization ●●●

Order	Subject
	Opening and Introduction
N2 – 1	ISO TC 85 : scope, structure and strategy
N2 – 2	IEC TC 45 : business plan and trends
N2 – 3	ISO/TC85/SC 2 "Radiation protection" activities : scope, structure and work programme
	Coffee Break
N2 – 4	Activities for international and national standardization of Japan
N2 – 5	Nuclear standardization policy of Korea

### 27 August. N3 : Workshop II for Nuclear International Standardization ●●●

Order	Subject
	Opening and Introduction
N3 – 1	Status and challenges of nuclear international standardization
N3 – 2	Proposal of an IEC standard for nuclear I&C
N3 – 3	Acceptance criteria on patient to patient dose in I-131 Therapy ward
N3 – 4	Development of determination method of Gd203 content in Gd fuel pellets, and standardization activities to register the new method as ISO standard
N3 – 5	Development on the incorporation of the international standards into domestic nuclear standards

# 3



## Schedule of Events Fire Protection Session(FP)



Sapphire

### 26 August. FP1 : Fire Protection



Order	Subject
	Opening and Introduction
FG - 1	The evaluation of limited-combustible in NPP's
FG - 2	Fire protection system in Operating NPP's
FG - 3	Multi-mis-operating status of NPP Cable fire
	Coffee Break
FG - 4	The improvement of PSA analysis for NPP fire
FG - 5	The cable evaluation of fire and limited-combustible
FG - 6	The status of fire protection regulation for NPP's

### 27 August. S1 : Earthquake Activities and Integrities of NP Structures I Structure Session(S)

Order	Subject
	Opening and Introduction
S1 - 1	Evaluation on the Site Application of KEPIC-SNE(Protective Coating)
S1 - 2	Analysis and Improvement of Uncertainty of the PSHA for Korean NPP Sites
S1 - 3	Development of Structural Life Management System(SLMS)for the Nuclear Power Plant Structures
	Coffee Break
S1 - 4	Determination of Cutoff Frequency of SSI System in Frequency Domain Analysis
S1 - 5	Improvement Instances for Construction Method of Reactor Containment Building
S1 - 6	Strength of Connections Between SC Member and RC Member

### 27 August. S2 : Earthquake Activities and Integrities of NP Structures II

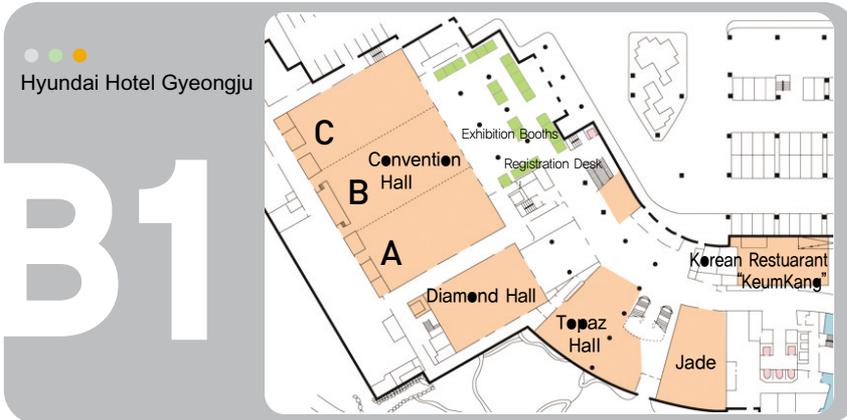


Order	Subject
	Opening and Introduction
S2 - 1	A Case Study of Composite Structures of Shin-Kori Nuclear Power Unit 1, 2
S2 - 2	Technical Specifications for Mechanical Splices for Reinforcing Bars
S2 - 3	Safety Assessment Method of NPP Structure against Impact and Impulse Load
S2 - 4	Improvement for tensile test requirement and examination of the mechanical splices on ASME-CC
S2 - 5	Improvement of Mechanical Rebar Splices for NPP Construction

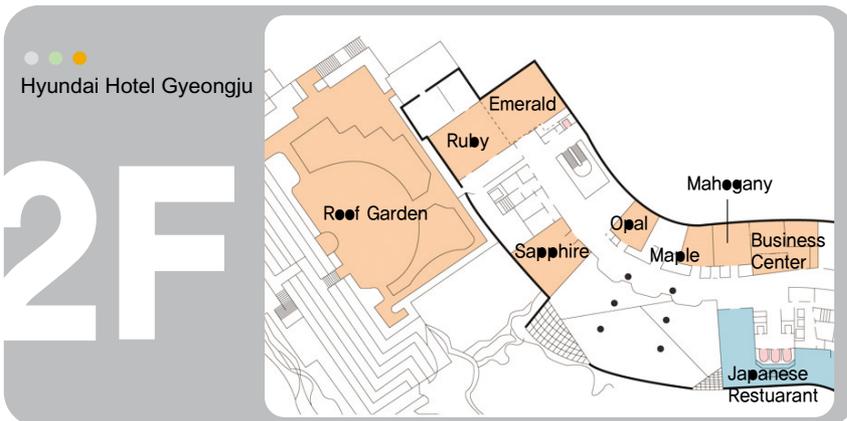
# 4



## Floor Layout



Convention Hall A	KEPIC Certification Holders' Seminar, Quality Assurance Session
Convention Hall B	Nuclear Mechanical Session
Convention Hall C	Electrical and I&C Session, KEPIC Equipment Qualification Workshop
Convention Hall (united)	Plenary Session, Commemorative Ceremony, Wide Banquet
Diamond Hall	General Mechanical Session
Jade	Workshop for KEPIC Application in Operating NPPs, Nuclear International Standardization Workshop, Seminar for Registered Professional Engineers



Sapphire	Fire Protection Session, Structure Session
Mahogany	Staffs' Meeting Room

# 5



## Tour Programs

### Overview

- ▶ Date : August 26 ~ 28
- ▶ Departure : Main Gate of the First Floor in the Hotel

Course	Fee(per person)	
	Pre-Application (1 Jul. ~ 21 Aug.)	On-Site Application (August 25 ~ 28)
Course 1 (26 Aug.)	₩20,000	₩30,000
Course 2 (27 Aug.)	₩20,000	₩30,000
Course 3 (28 Aug.)	₩30,000	₩40,000

※ Lunch, Admission fee are included in the tour fee.

### Course Information

Course 1 / (26 Aug.)		Course 2 / (27 Aug.)		Course 3 / (28 Aug.)	
09:30	Departure	09:00	Departure	09:00	Departure
10:00	Golgulsa, Gameunsa Temple	10:00	Bulguksa Temple	10:00	National Gyeongju Museum
11:00	Construction Site of Radioactive Waste Facility	11:00	Bunhwangsa Temple	11:00	Poseokjeong, Anapji Pond
12:00 ~ 13:30		Lunch			
14:00 ~ 17:00	Wolsung Nuclear Power Plants, Daewangam (Marin Tomb of Great King Munmoo)	14:00	Tomb of General Kim, Yu-shin	14:00 ~ 16:00	Silla Millenium Park (Experience for Culture of Silla Kingdom)
		15:00	Cheonmachong Tomb		
		16:00	Cheomseongdae (Ancient Astronomical Observatory)		
18:00	Arrival to Hotel	17:00	Arrival to Hotel	17:00	Arrival to Hotel

# 6



## Accommodation



### Hyundai Hotel Gyeongju



- ▶ All attendees can reserve a room using the hotel homepage, directly
- ▶ Special Rate for Accommodation

Type	Special Rate	
	Room	Breakfast Coupon
Single	₩100,000 (excluded breakfast)	₩20,000 per person
Double/Twin		

- ※ Taxes and service charges are included.
- ※ Breakfast will be served as buffet in the first floor.

### Attraction of Gyeongju



Gyeongju City which is located above Busan City, and its surroundings have inherited traces of the glory that flowered and then withered during the ancient Silla Kingdom (57 B.C. ~ A.D. 935). Both downtown and suburban areas contain many royal burial mounds and Buddhist remains, which preserve the arts and culture of the Silla Dynasty.

There're some UNESCO World cultural heritage, such as Bulguksa temple, and Seokgulam grotto, and Gyeongju historical culture area.

The Gyeongju Historic Areas where Mt. Namsan and many cultural properties are located contain a remarkable concentration of outstanding examples of Korean Buddhist art, in the form of sculptures, reliefs, pagodas, and the remains of temples and palaces, which were all built between the 7th and the 10th centuries.

### Information for Transportation & Travel



- ▶ Hotel Homepage : <http://www.hyundaihotel.com/gyeongju/>
- ▶ Culture Homepage of Gyeongju City : <http://culture.gyeongju.go.kr/>

# 7



## Registration



### Online Registration

- ▶ <http://www.kepic.or.kr>

### Registration Fee

- ▶ Payment is acceptable only cash at the registration desk.

Date	Classification	Fee(W)
July 1 ~ 31	Pre-Registration	150,000
August 1 ~ 2		160,000
August 25 ~ 28	On-Site Registration	170,000

※ Proceedings(hardcopy), Wide Banquet, Lunch(2 day), Souvenir Coupons are included in the Registration Fee.

### Guest/Family of Registrants

- ▶ Wide Banquet : ₩20,000 per person
- ▶ Tour Programs : refer to page 16

※ If you have any question or problem for the KEPIC-Week, please contact us by e-mail([kepic@kepic.or.kr](mailto:kepic@kepic.or.kr)).

# 2009 KEPIC-Week



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