

RBE Workshop December 12-13, 2005
2nd International Workshop on Risk-based Engineering
- Next Steps for Risk Engineering Development -

Program

Dec. 12th, 2005

9:00 Registration at Reception Hall, Tower 75, Meijo Univ.

Chair: Prof. Kee Bong Yoon

9:30 Welcome Speech Prof. Ken Kanematsu (President of Meijo University, Japan)
Opening Remark Dr. Koichi Yagi (NIMS, Japan)

9:45 Prof. Hideo Kobayashi (Yokohama National University, Japan)
<40> **Risk Associated with Materials -Lessons from Case Study of Failure Accidents-**

10:25 Mr. Gregory C. Alvarado (The Equity Engineering Group, Inc., U.S.A)
<40> **Managing the Risks Associated with Pressure Vessels, Piping and Tanks in Process Plants – Lessons Learned and Future Direction**

11:05 Coffee Break 25min.

Chair: Dr Ahmed Shibli

11:30 Dr. Aleksandar. S. Jovanovic (MPA Stuttgart, Germany)
<40> **CEN Workshop Agreement for the European Risk Based Inspection & Maintenance Procedure**

12:10 Prof. Kee Bong Yoon (Chung Ang University, Korea)
<40> **Development Status of RBI Methodology for Process and Power Plants in Korea**

12:50 Lunch Break 70min.

Chair: Dr. Takayasu Tahara

14:00 Dr. Ji Yoon Kim (Korea Gas Safety Corporation, Korea)
<40> **Application of RBI for Petrochemical Plants**

14:40 Prof. Joon Hyun Lee (Pusan National University, Korea)
<40> **Present and Future of NDE Techniques at Nuclear Power Plants in Korea**

15:20 Coffee Break 20min.

Chair: Dr. Makoto Hayashi

15:40 Dr. Jun Nobe (Mitsubishi Research Institute Inc., Japan)

<30> **Activities in NIMS Material Risk Information Platform Development Project**

16:10 Dr. Fujio Abe (NIMS, Japan)

<30> **Heat-to-Heat Variation in Creep Life for Stainless Steels Based on NIMS Metallographic Atlas**

16:40 Dr. Nobuyoshi Komai (Mitsubishi Heavy Industries, Ltd., Japan)

<30> **Considerations of Material Risk in Creep Rupture Tests of mod.9Cr-1Mo Steel Weldments**

17:15 *Mixer at Observatory, Tower 75, Meijo Univ.*

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19:30

Dec. 13th, 2005

8:30 *Registration*

at Reception Hall, Tower 75, Meijo Univ.

Chair: Dr. Aleksandar. S. Jovanovic

9:00 Prof. Shinsuke Sakai (University of Tokyo, Japan)

<40> **Current Status of Developing RBI Guideline in Japan**

9:40 Dr. Ahmed Shibli (European Technology Development, U.K.)

<40> **Development of 'Risk Based Maintenance' Framework for Power Plant Boilers**

10:20 Dr. Masataka Yatomi (Ishikawajima-Harima Heavy Industries Co., Ltd., Japan)

<30> **Application of RBM for Fossil Power Plant Boiler and Others**

10:50 Dr. Seiji Yamaoka (IDEMITSU Engineering Co., Ltd., Japan)

<30> **Proactive Maintenance Management in Process and Plant Industries**

11:20 *Coffee Break*

20min.

Chair: Dr. Kazunari Fujiyama

11:40 Dr. Nobuyoshi Satoh (Asahi Kasei Engineering Co., Ltd., Japan)

<30> **The History and Present Condition of Risk-based Engineering Application in ASAHI KASEI Co., Ltd.**

12:10 Dr. Kunio Onizawa (Japan Atomic Energy Agency, Japan)
<30> **Failure Probability Analyses of Nuclear Reactor Components Using Probabilistic Fracture Mechanics**

12:40 Dr. Takeru Sano (The High Pressure Gas Safety Institute of Japan, Japan)
<30> **Web-based Database for Maintenance Engineering of Oil Refinery and Petrochemical Plants – KHK Database for Maintenance Engineering -**

13:10 *Lunch Break* 60min.

Chair: Prof. Shinsuke Sakai

14:10 Dr. Yun Jae Kim (Korea University, Korea)
<30> **Significance of Accurate J Estimates in Failure Probability Prediction**

14:40 Mr. Bum Shin Kim (Korea Electric Power Research Institute, Korea)
<30> **Development of Risk Based Outrage Inspection and Maintenance Process for Fossil Power Plant**

15:10 Mr. Jin Sang Lee (Chung Ang University, Korea)
<30> **Evaluation of Failure Probability for High Temperature Components Using Monte Catlo Simulation**

15:40 *Coffee Break* 20min.

Chair: Dr. Koichi Yagi

16:00 Dr. Makoto Hayashi (Hitachi, Ltd. , Japan)
<30> **The Points on Issue of Application of Risk-based Engineering to Thermal and Nuclear Power Plants**

16:30 Prof. Kazunari Fujiyama (Meijo University, Japan)
<30> **Risk-based Engineering for the Quality Management of Plant Maintenance and Operation**

17:00 Closing Remark Prof. Kazunari Fujiyama (Meijo University, Japan)

<Cancellation>

Prof. Sun Dong Bai (University of Science and technology Beijing, China)
Project Review and Multi Scale Problem in the Safety Evaluation of Engineering Material