

Program of MITS 2004

- 15 March, 2004** NIMS-RIMAP Risk Based Engineering Workshop
- 16 March, 2004** International Symposium on NIMS Creep Data Sheet
- 17 March, 2004** NIMS-MPA Workshop on Long-term Strength and Reliability of High Cr Ferritic Creep Resistant Steels

Organized by

Materials Information Technology Station (MITS)

National Institute for Materials Science (NIMS)

Venue: National Institute for Materials Science
1-2-1 Sengen, Tsukuba-shi, Ibaraki 305-0047, Japan
<http://www.nims.go.jp/eng/visiting/directions.html>

Secretariat: Ms Shoko Tsuda
The Society of Non-Traditional Technology <http://www.sntt.or.jp>
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1st day of MITS meeting 2004

NIMS-RIMAP Risk Based Engineering Workshop

Date: 15 March, 2004

Organisation: NIMS Materials Risk Information Platform Development project & European RIMAP (Risk-Based Inspection and Maintenance Procedure) project

Support: National Institute for Materials Science (NIMS) & The Society of Non-Traditional Technology, Materials-System Safety Forum

Registration fee: 5,000JPY (Free for RIMAP Project member)

Program

- 10:00-10:10 **Opening Address**
- 10:10-10:30 **Concept of Risk Based Engineering**
Tokyo Institute of Technology **Hideo KOBAYASHI**
- 10:30-11:50 **Survey of RIMAP Project**
MPA Stuttgart, Germany **Aleksandar. S. JOVANOVIC**
- 11:50-12:20 **Activity of RBI Guideline Development for Non-Nuclear Industries by HPI Committee**
The University of Tokyo **Shinsuke SAKAI**
- 12:20-13:20 <Lunch Break>
- 13:20-13:50 **Application of RBM(Risk Based Maintenance) for Industrial Equipments, Boiler, LNG Tank, Crane etc.**
Best Materia Co.Ltd. **Shigemitsu KIHARA**
- 13:50-14:20 **Risk Based Maintenance of Aged Power Plants**
Hitachi Ltd. **Shigeo SAKURAI**
- 14:20-14:50 **Risk Based Management of Chemical Plants (tentative)**
Sumitomo Chemical, **Hiroshi ISHIMARU**
- 14:50-15:20 **The Activity of Tuev concerning Risk-Based Management**
TUV Industry Service, TUV SUD Group, Germany **R. KAUER**
- 15:20-15:40 <Coffee Break>
- 15:40-16:00 **Development of Materials Risk Information Platform Main System (tentative)**
Mitsubishi Research Institute **Jun NOBE**
- 16:00-16:20 **Development of Risk Management Techniques by Creep Tests of Simulated Boiler Thick Weldment**
Mitsubishi Heavy Industries **Nobuyoshi KOMAI**
- 16:20-16:40 **Creep Life Assessment Based on NIMS Metallographic Atlas**
National Institute for Materials Science **H. TANAKA**
- 16:40-17:00 **Risk-based Maintenance Planning Support System for Power Boilers**
Central Research Institute of Electric Power Industry **Terutaka FUJIOKA**
- 17:00-17:10 **Closing**

2nd day of MITS meeting 2004

International Symposium on NIMS Creep Data Sheet

Date: 16 March, 2004

Organisation: Materials Information Technology Station (MITS)
National Institute for Materials Science (NIMS)

Registration fee: Free (Reception : 3,000JPY)

Program

- 10:00-10:10 **Opening Address**
- 10:10-10:50 **Start of the NRIM Creep Data Sheet Project**
Japan Ultra-high Temperature Materials Research Institute **Ryohei TANAKA**
- 10:50-11:30 **Development of Creep Resistant Steels and Alloys in Japan**
Sumitomo Metal Technology, Inc. **Yoshiatsu SAWARAGI**
- 11:30-12:10 **Development of Creep Resistant Materials in U.S.A. (*Tentative*)**
Alstom, U.S.A. **Domenic A. CANONICO**
- 12:10-13:10 <Lunch Break>
- 13:10-13:55 **The European Creep Collaborative Committee ECCC - Joint Creep Data Generation and Assessment on Steels and Superalloys in Europe since 1992 -**
Istituto Scientifico BREDA, Italy **Gunther MERCKLING**
- 13:55-14:40 **Activity of German Creep Committee (GCC)**
German Creep Committee, Germany **Karl Heinz MAYER and Torsten-Ulf KERN**
- 14:40-15:10 **Activity of JPVRC (Japan Pressure Vessel Research Council)**
National Institute for Materials Science **Fujio ABE**
- 15:10-15:30 <Coffee Break>
- 15:30-16:00 **Application of Creep Data to Design and Codes**
Kyushu Institute of Technology **Fujimitsu MASUYAMA**
- 16:00-16:30 **Life Evaluation and Weld Repair of Thermal Power Plant Components**
Tokyo Electric Power Company **Mitsuru AOKI**
- 16:30-17:00 **Present Status and Future Prospect of NIMS Creep Data Sheet Project**
National Institute for Materials Science **Kazuhiro KIMURA**
- 17:00-17:30 **Significance of Long-term Creep Data**
Tokyo Institute of Technology **Takashi MATSUO**
- 17:30-17:35 **Closing**
- 17:45-19:30 **Reception**

3rd day of MITS meeting 2004

NIMS-MPA Workshop on Long-term Strength and Reliability of High Cr Ferritic Creep Resistant Steels

Date: 17 March, 2004

Organisations: Materials Information Technology Station & Steel Research Center
National Institute for Materials Science (NIMS)

Registration fee: Free

Program

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| 10:00-10:10 | Opening Address |
| 10:10-10:30 | Long-term Creep Strength Prediction of 9Cr Steels
National Institute for Materials Science Kazuhiro KIMURA |
| 10:30-10:50 | Models and Methods for Predicting Creep Life and Creep Strength of Ferritic Steels
VTT, Finland Pertti AUERKARI |
| 10:50-11:10 | Influence of Heat Treatment on Material Characteristics
MPA Stuttgart, Germany Karl MAILE |
| 11:10-11:30 | <Coffee Break> |
| 11:30-11:50 | Creep Strength of 9Cr Steel Weldments (<i>tentative</i>)
National Institute for Materials Science Masaaki TABUCHI |
| 11:50-12:10 | Evaluation of Cross Weld Creep Strength of 9-11 Cr Steels
MPA Stuttgart, Germany Andreas KLENK |
| 12:10-13:20 | <Lunch Break> |
| 13:20-13:40 | High Temperature Fatigue Property of High Cr Steels (<i>tentative</i>)
National Institute for Materials Science Koji YAMAGUCHI |
| 13:40-14:00 | Damage Evaluation in P91 Under Multiaxial Loading Conditions
MPA Stuttgart, Germany Karl MAILE |
| 14:00-14:20 | Simulated Internal Pressure Creep Test of 9Cr Steels (<i>tentative</i>)
IHI Isamu NONAKA |
| 14:20-14:40 | Calculation of Deformation and Damage in High Temperature Components
MPA Stuttgart, Germany Andreas KLENK |
| 14:40-15:00 | <Coffee Break> |
| 15:00-15:20 | Alloy Design of Ferritic Creep Resistant Steels (<i>tentative</i>)
Sumitomo Metal Masaaki IGARASHI |
| 15:20-15:40 | Long Term Stability of 9-12%Cr Steels
Elsam/Energy E2, TU, Denmark John HALD |
| 15:40-16:00 | Development of High Cr Ferritic Creep Resistant Steels (<i>tentative</i>)
National Institute for Materials Science Fujio ABE |
| 16:00-16:30 | Progress in Heat Resistant Steels
The University of Tokyo Toshio FUJITA |
| 16:30-16:40 | Closing |