# 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 <a href="http://www.nims.go.jp/eng/visiting/directions.html">http://www.nims.go.jp/eng/visiting/directions.html</a>

Secretariat: Ms Shoko Tsuda

The Society of Non-Traditional Technology <a href="http://www.sntt.or.jp">http://www.sntt.or.jp</a>

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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 &

RIMAP (Risk-Based Inspection and Maintenance

Procedures for European Industry) 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

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=	T. Fujioka (Central Research Institute of Electric Power Industry)	
10:00-10:10	Opening Address K. Yagi (National Institute for Materials Science)	
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	
	The University of Tokyo Dimisuke DAIVA	
12:20-13:20	<lunch break=""></lunch>	
12.20 10.20	Chancil Dicar	
Chairnerson:	M. Hayashi (Hitachi)	
13:20-13:50	Application of RBM(Risk Based Maintenance) for Industrial Equipments, Boiler,	
15.20 15.50		
	LNG Tank, Crane etc.	
40.50	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 Maintenance of Chemical Plant	
	Sumitomo Chemical, Hiroshi ISHIMARU and Hiroaki MASATOMO	
14:50-15:20	The Activity of Tuev concerning Risk-Based Management	
	TUV Industry Service, TUV SUD Group, Germany R. KAUER	
15:20-15:50	Integrated Evaluation of Maintenance Strategies for Steam Generator Tubes	
	Considering Failure Probabilities, Financial Index and Social Acceptance	
	The University of Tokyo, Shinobu YOSHIMURA	
15:50-16:10	<coffee break=""></coffee>	
2 2 2 2 2 2 0		
Chairperson; S. Sakai (University of Tokyo)		
-	Development of Materials Risk Information Platform Main System (tentative)	
10 10 10 00	Mitsubishi Research Institute Jun NOBE	
	Mitsubishi Mesearch institute our NODE	

16:30-16:50 Development of Risk Management Techniques by Creep Tests of Simulated Boiler

### Thick Weldment

	Mitsubishi Heavy Industr	ries <b>Nobuyoshi KOMAI</b>
16:50-17:10	Creep Life Assessment Based on NIMS Metallographic Atl	as
	National Institute for Material	s Science H. TANAKA
17:10-17:30	Risk-based Maintenance Planning Support System for Pov	ver Boilers
	Central Research Institute of Electric Power Indus	try <b>Terutaka FUJIOKA</b>
17:30-17:40	Closing A. S. Jo	vanovic (MPA Stuttgart)

## 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

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Chairperson; K. Kimura (National Institute for Materials Science)			
10:00-10:10	Opening Address K. Yoshihara (National Institute for Materials Science)		
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=""></lunch>		
Chairperson; F.	Masuyama (Kyushu Institute of Technology)		
13:10-13:55	The European Creep Collaborative Committee ECCC - Joint Creep Data Generation and Assessment on Steels and Superalloys in Europe since 1992 - Instituto 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=""></coffee>		
Chairperson; F. Abe (National Institute for Materials Science)			
15:30-16:00	Application of Creep Data to Design and Codes  Kyushu Institute of Technology Fujimitsu MASUYAMA		

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 K. Yagi (National Institute for Materials Science)
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

17 March, 2004 Date:

Organisations: Materials Information Technology Station & Steel Research Center

National Institute for Materials Science (NIMS)

Registration fee: Free

#### Program

Chairpaerson;	F. Abe (National Institute for Materials Science)
10:00-10:10	Opening Address K. Yagi (National Institute for Materials Science)
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 Microstructure  MPA Stuttgart, Germany Karl MAILE
	MIA Stuttgart, Germany Karl WALLE
11:10-11:30	<coffee break=""></coffee>
11.10 11.30	Conee Break
Chairpaerson;	P. Auerkari (VVT)
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11:30-11:50	Creep Strength of 9Cr Steel Weldments (tentative) 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=""></lunch>
Chairpaerson;	J. Hald (Elsam/Energy E2, TU)
13:20-13:40	High Temperature Fatigue Property of High Cr Steels (tentative)  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 (tentative)
14.00 14.40	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=""></coffee>

Chairpaerson;	K. Nagai (National Institute for Materials Science)
15:00-15:20	Alloy Design of Ferritic Creep Resistant Steels (tentative) 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 (tentative)  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 K. Nagai (National Institute for Materials Science)