Member

JRC-IPSC side:

Fabio TAUCER

:Structural Mechanics Unit.

NILIM side:

Junichi MURAKAMI	:Deputy of Director General,
Mikio FUTAKI	:Director of Building Department,
Mizuo INUKAI	:Senior Researcher, Standards and Accreditation System
	Division, Building Department,

BRI side:

Hiroyuki YAMANOUCHI	:Chief Executive,
Toshibumi FUKUTA	:Director of International Institute of Seismology and
	Earthquake Engineering,
Masaomi TESHIGAWARA	:Chief Research Engineer, Department of Structural
	Engineering,
Masanori IIBA	:Chief Research Engineer, Department of Structural
	Engineering,
Hiroshi KURAMOTO	:Associate Professor, International Cooperation Center of
	Engineering Education Development, Toyohashi
	University of Technology,
Hiroshi FUKUYAMA	:Chief Research Engineer, Department of Structural
	Engineering,
Hiroto KATO	:Senior Research Engineer, Department of Structural
	Engineering,
Koichi KUSUNOKI	:Senior Research Engineer, Department of Structural
	Engineering,

AGENDA ON 30&31 MAY, 2002 AT NILIM & BRI

30 May(Thu)	
9:30 9:35	Opening at Meeting room of NILIM ANNEX 4F
10:00-10:10	Introduction of members, confirmation of agenda
10:10-10:50	Session 1 Experimental Results on Stress-Strain Relation of Ti-Ni Shape Memory Alloy Bars and Their Application to Seismic Control of Buildings by T. Fukuta
10:50-11:30	Session 2 Experimental Study on Torsional Vibration Behavior of Steel Frame Specimen with Eccentricity by H. Kato
12:00-13:30	Friendship luncheon hosted by NILIM & BRI
13:30-14:00	Greeting to Director General
14:00-14:45	Session 3 Seismic Performance of Retrofitted RC Slab Connected with Strengthening Frame by M. Inukai
14:45-15:20	Session 4 Posterior Time-Step Adjustment Technique in Substructuring Pseudo-Dynamic Test by K. Kusunoki
15:20-15:50	Session 5 Mass-eccentric Effect on response of Base Isolation System for Houses by M. Iiba
18:00-20:00	Dinner
31 May(Fri)	
9:30-10:15	Session 6 Sub-Structure Pseudo Dynamic Testing on 12 story Reinforced Concrete Frame with Soft First Story by H. Kuramoto
10:15-11:00	Session 7 European Laboratory For Structural Assessment (ELSA) by F. Taucer
11:00-12:00	Session 8 Smart Structural System Large Scale Shaking Test by M. Teshigawara
12:00-14:00	Luncheon hosted by NILIM & BRI
14:00-14:30	Session 9 Safety Assessment for Earthquake Risk Reduction: An EU Research and Training Network by F. Taucer
14:30-15:00	Session 10 Seismic Performance Assessment & Rehabilitation: SPEAR by F. Taucer
15:00-15:30	Session 11 Japanese Design And Construction Guidelines For Seismic Retrofit of Building Structures With FRP Composites by H. Fukuyama
15:30-16:00	Session 12 Discussion about Future plan and Possible collaboration
16:00-16:30	Visit to laboratory
16:30-16:45	Confirmation of resolutions
16:45-17:00	Adoption of final resolutions
18:00-20:00	Friendship dinner hosted by BRI

SUMMARY, RESOLUTION AND RECOMMENDATIONS OF THE SEVENTH MANAGEMENT PANEL ON COLLABORATION RESEARCH ACTIVITIES BETWEEN JRC-IPSC J-NILIM AND J-BRI (Tsukuba, Ibaraki, Japan, May 30 & 31, 2002)

The seventh management panel on collaboration research activities between JRC-IPSC(Institute for the Protection and Security of the Citizen, the former JRC-ISIS), J-NILIM(National Institute for Land and Infrastructure Management) and J-BRI(Building Research Institute) was held in Tsukuba on May 30 and 31, 2002, for the purpose of confirming the past activities related to the collaboration research, exchanging the related research information and discussing the future plan of the collaboration works. The past research results presented and discussed in a most friendly and cordial atmosphere. The cooperative activities in the future were discussed, and the summary, resolutions and recommendations were agreed.

1. PARTICIPANTS TO THE MEETING

From JRC-IPSC Fabio TAUCER From J-BRI Toshibumi FUKUTA, Masaomi TESHIGAWARA, Hiroshi FUKUYAMA, Hiroto KATO, Masanori IIBA, Kouichi KUSUNOKI, Hiroshi KURAMOTO(former researcher of BRI, Toyohashi Univ. of Technology) From J-NILIM Mikio FUTAKI, Mizuo INUKAI

2. SUMMARY OF MEETING

The research results were presented and discussed on the collaborative research items as written below.

- (ITEM 1) : Comparison of the seismic performance of building structures designed according to the current European and Japanese Norms (comparison)
- (ITEM 2) : Development and validation of new design methods based on performance concepts (performance concepts)
- (ITEM 3) : Study of seismic action, such as impulsive type of ground motion in nearsource areas or long-duration long-period motion in the far field over soft soil (seismic action)
- (ITEM 4) : Study of the concepts of base isolation and seismic response control for building structures (base isolation)

- (ITEM 5) : Vulnerability assessment, repair and strengthening of existing building structures (repair)
- (ITEM 6) : Development of large scale experimental method (pseudo dynamic)

JRC-IPSC side

- Presentation of the research activities, structure and organization of the ELSA laboratory. (F. Taucer)
- Safety Assessment for Earthquake Risk Reduction (SAFERR): Overview (F. Taucer)
- Seismic Performance Assessment and Rehabilitation (SPEAR): Overview (F. Taucer)
- J-NILIM and J-BRI side
- Experimental Results on Stress-Strain Relation of Ti-Ni Shape Memory Alloy Bars and their Application to Seismic Control of Buildings (T. Fukuta)
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- Mass-eccentric Effect on Response of Base Isolation System for Houses (M. Iiba)
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- Sub-Structure Pseudo Dynamic Testing on 12 Storey Reinforced Concrete Frame with Soft First Storey (H. Kuramoto)
- Smart Structural Systems Large Scale Test (M. Teshigawara)

Under the above considerations, the future plan of the collaborative activities was discussed.

3. RESOLUTION

- 1) Both sides consider that the meeting was successful and fruitful.
- 2) Both sides re-affirm that the exchange of detailed information about the results of the past activities was effective and should be continued at an increased level.
- 3) Both sides discussed the future areas of collaboration for research, namely: i) the renewal of existing building structures and ii) the harmonization of testing methods directed towards the development of performance based design methodologies. For this

purpose effective exchange of information during the next months will be maintained by electronic mail, fax, telephone, etc.

4. RECOMMENDATIONS

- 1) Both sides will make any necessary actions for continuing collaboration on the present agreement.
- 2) The materials and papers introduced in the meeting are bound as proceedings of the seventh management panel.
- The collaboration between J-BRI, J-NILIM and JRC-IPSC, acting as main communication links of the Japanese and European research parties, will be continuously pursued.

Tsukuba, Japan, May 31, 2002





Fabio TAUCER, M. Eng.. Chairman, Management Panel EU Side Structural Mechanics Unit Institute for the Protection and Security of the Citizen Joint Research Centre (JRC-IPSC), European Commission Mikio FUTAKI, Dr. of Eng. Chairman, Management Panel Japanese Side Building Department National Institute for Land and, Infrastructure Management (J-NILIM) Ministry of Land, Infrastructure and Transport, Japan

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