

February 28, 2013

WFEO STC Report 2012
Disaster Risk Management Committee

CONTENTS

1. Name of committee secretary
2. List of Committee members, their contact details and their affiliation to National Membership
3. Recruitment of members
4. Detailed budget, sources of funds and requests of WFEO allocation
5. Report on the Committee website and committee section on the WFEO website
6. Appointment of vice chairs, regional vice presidents and any specific tasks given to members
7. Strategic and action plans 2012
8. Result of Activities (January 2012 to February 2012)
9. Collaboration with International Organizations
10. Plans for 2013

WFEO-CDRM Chair
Dr. ISHII, Yumio

1. Name of Committee Secretary

Japan Federation of Engineering Societies (JFES)

Address: 5-26-20 Shiba, Minato-ku, Tokyo 108-0014

TEL: +81-3-5765-8002 FAX: +81-3-5765-3219

Kazumasa ITO, Chief Secretary of International Committee

E-mail: k-ito@ctie.co.jp, cti.k.ito@gmail.com

Hiroataka HIYAMA, Deputy Chief Secretary of International Committee

E-mail: h-hiyama@ctie.co.jp, cti.hiyama@gmail.com

1.

2. List of Committee members, their contact details and their affiliation to National Membership

WORLD FEDERATION OF ENGINEERING ORGANISATION (WFEO) COMMITTEE DISASTER RISK MANAGEMENT (WFEO-CDRM) MEMBERSHIP CONTACT LIST Confirmed as of January, 2013

Chairman and leaders

Country	Name	Title and affiliation	Contact
Japan	Dr. ISHII, Yumio	Chairman CTI Engineering Co., Ltd.	ishii@ctie.co.jp
Japan	Prof. IKEDA, Syunsuke	Vice Chairman Chair of Committee on WFEO Science Council of Japan, Cabinet Office	sk-ikeda@ctie.co.jp
USA	Prof. Vilas MUJUMDAR	Vice Chairman US National Sciences Foundation, Disaster Risk Mitigation at System Level through PPP	v_mujumdar41@yahoo.com
Japan	Prof. KOMATSU, Toshimitsu	Leader of WDRMSC Dept. of Civil Eng. Kyushu University	komatsu@civil.kyushu-u.ac.jp
Japan	Prof. WADA, Akira	Leader of EQDRMSC Civil Eng. Dept. Tokyo Institute of Technology	wada@serc.titech.ac.jp
Australia	Dr. Marlene KANGA	Leader of New-sub-Committee National Vice President Finance Engineers Australia	mkanga@engineersaustralia.org.au

Sub-Committee on Water-related Disaster Risk Management (WDRMSC)

Country	Name	Title and affiliation	Contact
Bangladesh	Dr. Ashutosh SUTRA DHAR	Assoc. Prof., Dept. of Civil Eng., Univ. of Eng. & Tech.	ashutoshdhar@ce.buet.ac.bd
Canada	Prof. Slobodan P. SIMONOVIC	Dept. of Civil and Env. Eng. and Inst. for Catastrophic Loss Reduction, Univ. of Western Ontario	simonovic@uwo.ca
Canada	Prof. Gordon MCBEAN	Dept. of Geography and Political Science, Inst. for Catastrophic Loss Reduction, Univ. of Western Ontario	gmcbean@uwo.ca
Canada	Prof. Chan WIRASINGHE	Dept. of Civil Engineering, Univ. of Calgary	chan.wirasinghe@ucalgary.ca
China	Prof. CHENG, Xiaotao	Dept. of Water Hazard Research, China Inst. of Water Resources and Hydropower Research (IWHR)	chengxt@iwhr.com
India	Mr. Mohan JAGDISH	Institution of Engineers, India	themohanshouse@hotmail.com
Japan	Prof. TAKEUCHI, Kuniyoshi	Director, International Center for Water Hazard and Risk Management	kuni.t@pwri.go.jp
Japan	Prof. IMAMURA, Fumihiko	Disaster Control Research Center	imamura@tsunami2.civil.tohoku.ac.jp
Japan	Mr. MOCHIZUKI, Tsuneyoshi	Executive Director Japan River Association	mochizuki-t@japanriver.or.jp
Japan	Prof. KAN, Kazutoshi	Dept. of Civil Eng. Shibaura Institute of Technology	kan@sic.shibaura-it.ac.jp
Japan	Dr. TSUKAHARA, Kenichi	Professor Dept. of Civil Eng. Shibaura Institute of Technology	tsukahara@doc.kyushu-u.ac.jp
Vietnam	Dr. NGUYEN,	Chief Engineer	nguyen@ctie.co.jp

Country	Name	Title and affiliation	Contact
	Son Hung	CTI Engineering Co., Ltd.	
Kuwait	Eng. Talal M. Al-Qahtani	Chairman Kuwaiti Society of Engineers	eng4q8@gmail.com
Kuwait	Eng. Yahya Aliyan Al Mutairan	Team Leader, Pressure Maintenance Plant Asset Team, JO Kuwaiti Gulf oil Company	Y89170.almutairan@kgoc.com
Kuwait	Eng. ABDULLAH E. AL-OTAIBI	Team Leader of Planning	ABOTAIBI@kockw.com
Kuwait	Eng. Ahmad Khaled AL-Qassar	Member of WFEO Bureau of Kuwait	qassare@gmail.com
Morocco	Mr. Mokhtar BZIOUI	Water planning and management consultant	bziouimo@yahoo.fr
Philippine	Prof. Leonardo LIONGSON	Chairman, Philippine National Committee for the UNESCO IHP	leonardo.liongson@up.edu.ph
UAE	Dr. Tarek MERABTENE	Civil Eng. Dept., Higher Colleges of Tech. Abu Dhabi Men's College	tarek.merabtene@hct.ac.ae

Collaborative Member of WDRMSC

Country	Name	Title and affiliation	Contact
Canada	Mr. Wayne BOWES	Past President, FIDIC, Treasurer, Red Canada	Wayne.bowes@sympatico.ca

Sub-Committee on Earthquake Disaster Risk Management (EQDRMSC)

Country	Name	Title and affiliation	Contact
China	Prof. Zifa WANG	Institute of Engineering Mechanics, Earthquake Administration, Harbin	zifawang@gmail.com
India	ER. Ashok BASA	Director, M/s. B. Engineers & Builders Limited., Chairman, Civil Engineering Division Board of The Institute of Engineers	b_eb@hotmail.com
Japan	Prof. HAMADA, Masanori	Dept. of Civil and Env. Eng., Waseda Univ.	hamada@waseda.jp
Japan	Prof. HORI, Muneo	Earthquake Research Institute, Univ. of Tokyo	hori@eri.u-tokyo.ac.jp
Japan	Prof. KAWASHIMA, Kazuhiko	Leader of EQDRMSC Civil Eng. Dept. Tokyo Institute of Technology	kawashima.k.ae@m.titech.ac.jp
Japan	Dr. FUJIMORI, Toshiaki	President, International Institute for Construction Technology Information	fjtoshiaki@ybb.ne.jp
Korea	Prof. Hyun Moo KOH	Dept. of Civil Eng. Seoul National University	hmkoh@snu.ac.kr
Philippines	Prof. Andres W.C. ORETA	Dept. of Civil Eng., De La Salle Univ.	oretaa@dlsu.edu.ph
Chinese Taipei	Prof. Yeou-Fong LI	Dept. of Civil Eng. National Taipei Univ. of Tech.	yfli@ntut.edu.tw
Chinese Taipei	Prof. Tzu Ying LEE	Dept. of Civil Eng. National Central Univ.	tylee@ncu.edu.tw
Kuwait	Eng. Jalal Abudulmohsen Al Tabtabaei	Director for Consultancy and Project Management, International Quality Center	jalal@iqc-global.com
Thailand	Prof. Anat RUANGRASSA MEE	Dept. of Civil Eng. Churamongkorn Univ.	Anat.R@eng.chula.ac.th
Turkey	Prof. Zeki HASGUR	Dept. of Civil Eng., Istanbul Technical Univ.	zhasgur@ins.itu.edu.tr
Singapore	Prof. Lee Fook HOU	Dept. of Civil Eng. National Univ.	zhasgur@ins.itu.edu.tr
USA	Prof. Vilas	US National Sciences	v_mujumdar41@yahoo.com

Country	Name	Title and affiliation	Contact
	MUJUMDAR	Foundation, Disaster Risk Mitigation at System Level through PPP	
USA	Dr. Alfredo H-S ANG	Univ. of California, Irvine	Ahang2@aol.com

Collaborative Member of EQDRMSC

Country	Name	Title and affiliation	Contact
USA	Prof. Thomas D. O'ROURKE	School of Civil and Env. Eng. Cornell Univ.	tdo1@cornell.edu

Secretariat

Country	Name	Title and affiliation	Contact
Japan	Dr. ITO, Kazumasa	Chief Engineer CTI Engineering Co., Ltd.	k-ito@ctie.co.jp cti.k.ito@gmail.com
Japan	Mr. HIYAMA, Hirotaka	Senior Engineer CTI Engineering Co., Ltd.	h-hiyama@ctie.co.jp cti.hiyama@gmail.com

New Members (their assignment is to be determined)

Country	Name	Title and affiliation	Contact
Peru	Ing. Loren M. Ruiz García	Colegio de Ingenieros del Peru-Consejo Nacional	ruiz.loren@gmail.com
Honduras	Andrés A. Escobar S.	Civil Engineer's Association of Honduras	Andres_escobar@ovi.com
Lebanon	Paul Nacouzi	Order of Engineers & Architects Beirut	bureau_ing_paul_nacouzi@yahoo.com

3. Recruitment of members

In September 2012, recommendations were made to the Committee Chair to recruit new members from Japan. The member from Japan was introduced and approved by the members of CDRM which was held on 9th September, 2012.

After the new members submitted CVs and recommendation letters at the committee meeting held in September 2012, the Chair approved the registration of new members.

New members registered as of September 2012

Country	Name	Title and affiliation	Contact
Japan	Dr. Ali CHAVOSHIAN	CTI Engineering Co., Ltd	chavoshian@gmail.com chavoshian@ctie.co.jp
Japan	Dr. TSUKAHARA Kenichi	Secretary of Committee on International Cooperation for Natural Disaster Risk Reduction of Science Council of Japan Professor Dept. of Civil Eng. Kyushu University	tsukahara@doc.kyushu-u.ac.jp

4. Detailed budget, sources of funds and requests of WFEO allocation

Financial statements of WFEO-DRM for 2012 and 2013 are shown as follows.

(1) Revenues and Expenditures for 2012 (From April 2012 to March 2013)

The budget for 2012 was spent as planned, mainly for hosting the 5th International Symposium on Disaster Risk Management

WFEO-DRM Financial Statements of 2012

Revenue

Content	Unit	amount
WFEO allocation	Euro	4,000.00

Spending

Content	Unit	amount
AIJ-JSCE-DRM International Symposium (Nagoya, Japan) Sept. 8. 2012		
Travel and Accommodation for an invited speaker	Yen	95,500
Reward for speakers (6 persons)	Yen	100,000
Posters and Signs	Yen	40,000
Copy of proceedings (100 copies)	Yen	210,000
Reception (20 persons)	Yen	40,000
Administration	Yen	38,450
Total (Yen)	Yen	523,950
Total (Euro)	Euro	5,239.50
Balance	Euro	-1,239.50

1 Euro = 100 Yen

(2) Revenues and Expenditures for 2013(From April 2013 to March 2014)

The Committee proposes the following budget for the year 2013 at the Executive Board Meeting to be held in April 2013.

Proposed WFEO-DRM Financial Statements of 2013

Content	Unit	Amount
WFEO-JFES-AIJ Joint International Symposium (Sept. 2013)		
Copy of Proceedings (100 copies)	EUR	3,200
Administration	EUR	400
DRM face to Face Meeting in WES (Sept. 2013)		
Copy of Proceedings (50 copies of Print-outs)	EUR	1,000
Guidelines of disaster risk management		
Copy of Guidelines for Water-related DRM (50 copies of Print-outs)	EUR	1,000
Copy of Guidelines for Earthquake-related DRM (50 copies of Print-outs)	EUR	1,000
Total	EUR	6,600

Printing: color hard copy and bookbinding

Total: EUR 6,600

**5. Report on the Committee website and committee section on the WFEO website
17 updated items in the News section:**

IAHS Book on “Floods: From Risk to Opportunities” Edited by CDRM Member
February 5, 2013

WFEO-CDRM will Participate in the Organizing of the World Landslide Forum 3 in
Beijing, June 2014
February 5, 2013

The CDRM Chair Participation in the World Bank TV Conference
February 5, 2013

The 9th Conference of the International Institute for Infrastructure, Renewal and
Reconstruction (I3R2)
February 4, 2013

Prof. Akira WADA, new leader of the Sub-Technical Group on Earthquake Disaster
January 16, 2013

Establishment of a new sub-committee
October 31, 2012

Article from Engineers Australia magazine regarding WEF2012 and CDRM Committee
October 31, 2012

Seminar on Sharing Lessons from Great East Japan Earthquake
October 18, 2012

Journal of Disaster Research (October 2012 issue)
October 18, 2012

First Announcement: The 9th Annual International Conference of the I3R2 in Australia in
July 2013
September 18, 2012

CDRM Newsletter, Issue: September 2012
September 14, 2012

Joint International Workshop on Natural Disaster Mitigation, Nagoya University
Higashiyama Campus on 13 September 2012

September 14, 2012

International Conference on Disaster Management, Kumamoto-Japan, August 24 – 26, 2012

August 7, 2012

New Member

August 7, 2012

ICOLD 2012 Participation and Report

August 7, 2012

Submission of the Annual Report (2009-2011)

August 6, 2012

Report on World Ministerial Conference on Disaster Reduction in Tohoku

July 16, 2012

5 updated items in the Events section:

2013 World Engineers' Summit (WES2013), Singapore

November 19, 2012

Establishment of a new sub-committee

October 31, 2012

CDRM Face-to-Face Meeting No. 3, September 17, 2012, Grand Hotel Union Ljubljana, Slovenia

August 7, 2012

Joint International Workshop on Natural Disaster Mitigation, Nagoya University

Higashiyama Campus on 13 September 2012

August 7, 2012

7 updated items in the Events section:

Engineers Australia WEF2012 Kanga

October 31, 2012

I3R2 2013 Conference Postcard

September 18, 2012

CDRM Newsletter 2012

September 14, 2012

Sep 17 CDRM Committee Meeting

August 10, 2012

24 AUG 2012 Conference

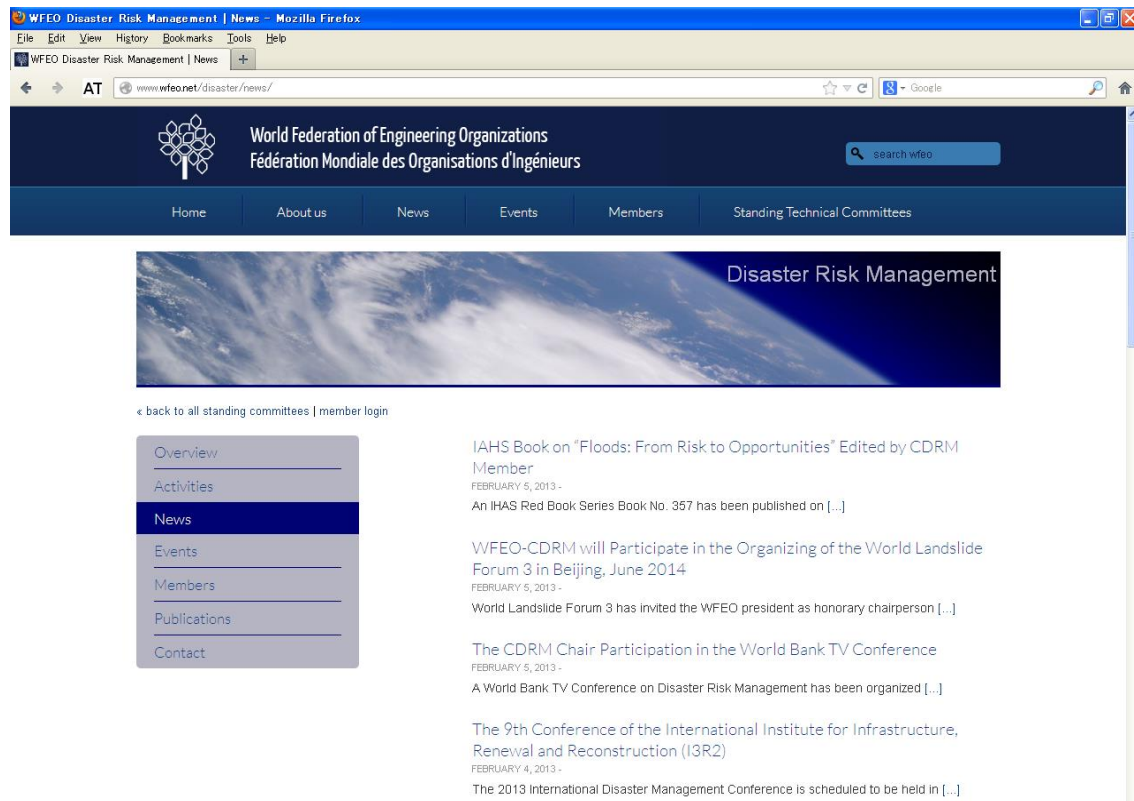
August 7, 2012

13 SEP WFEO AIJ JFES Workshop Program revised ver.2

August 7, 2012

ICOLD2012 Report English

August 7, 2012



6. Appointment of vice chairs, regional vice presidents and any specific tasks given to members

The committee consists of two Sub-Committees, as Water-related Disaster Risk Management Sub-Committee (WDRMSC) and Earthquake-related Disaster Risk Management Sub-Committee (EQDRMSC).

a) Chairman

Yumio ISHII (Japan)

b) Vice Chair

Syunsuke IKEDA, Vilas MUJUMDAR

c) Water related Disaster Risk Management Sub-Committee (WDRMSC)

The Sub-Committee on WDRM consists of twenty-two full members and one collaborative member from Australia, Bangladesh, Canada, China, India, Japan, Kuwait, Morocco, the Philippines, and UAE.

Toshimitsu KOMATSU, Leader (Japan)

d) Earthquake-related Disaster Risk Management Sub-Committee (EQDRMSC)

The Sub-Committee on EQDRM consists of seventeen full members and one collaborative member from China, India, Japan, Korea, Kuwait, the Philippines, Chinese Taipei, Thailand, Turkey, Singapore, and USA. More members will be added as required by the progress of work.

Akira WADA, Leader (Japan)

e) Disaster Risk Management Network Sub-Committee (DRMNSC)

Proposal was made from a member to establish a new subcommittee, Subcommittee on Capacity Building for Non Structural Measures for Natural Disasters and it was approved by the Committee.

The Subcommittee started its activities with the leader Dr. Marlene Kanga.

7. Strategic and action plans 2012

The action items for 2012 were planned as follows:

a) Inviting new members

New members will be recruited by requesting members of WFEO Executive Council for nomination.

b) Creating contents for CDRM's website in WFEO home page

Planned contents for the CDRM website in WFEO homepage are as follows;
Objectives, Organizational structure, publication, minutes of meetings, etc.

c) Editing and releasing a electronic Newsletter of CDRM (one or two issues/year)

News letters containing reports of CDRM activities will be prepared and distributed.

d) Revising draft Guideline for Earthquake-related DRM of Seismic Retrofit Technology for Buildings and Infrastructure, Seismic Isolation Technology and Construction Methods for Earthquake-proof Structures etc.

Based on the study results of Earthquake-related Disaster Risk Management Sub-Committee, the draft Guideline for Earthquake-related disaster risk management will be developed and revised.

e) Revising drafted Guideline for Water-related DRM (Fundamentals, Floods and Tsunamis) and contacting to receive author's copyright for quotations

f) Preparing a draft for DRM Guideline for Droughts and Storm Surges

Studies on droughts, typhoons, and storm surges will be conducted to develop the preliminary draft of the guideline for water-related disaster risk management for droughts and storm surges.

g) Holding the 6th WFEO-JFES Joint International Symposium: Disaster Risk Management

The 6th WFEO-JFES Joint International Symposium is to be held for a period in August or September 2012. It will be co-hosted by WFEO, Science Council of Japan (SCJ), and Japan Federation of Engineering Societies (JFES), Japan Society of Civil Engineers (JSCE) and Architectural Institute of Japan. Symposium proceedings will be prepared and published.

- h) Participating and arranging to organize a session or panel on DRM in World Engineering Forum, September, 17-21, 2012, Slovenia

The DRM session is to be organized to exchange latest information on disaster risk management and disaster damage caused by disasters occurred in recent years. Proceedings will be prepared and distributed in a printed version to participants of the panel session.

- i) Coordination with international organizations through providing inputs and exchanging opinions at International Symposiums and international conferences. (UNISDR, UNESCO etc.)

7. Result of Activities (January 2012 to February 2012)

(1) Cooperation with UNESCO

Discussions have been made with UNESCO on the possibility of establishing the Liaison Committee on Disaster Risk on 8th March 2012 at UNESCO. There have been ongoing discussions on this matter with the Hydrology Division of UNESCO.

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(2) Joint-Initiative with OECD

Regarding the possible cooperation between WFEO and OECD that has been under review, the Committee assigned the chair and experts in relevant field as members to take part in activities of the Joint-Initiative of WFEO/OECD.

(3) Newsletters(Reference 1)

Activities in 2012 was summarized in a newsletter and distributed to members of CDRM. IT was also publicized on CDRM Website.

(4) Admission of new members

Paul Nacouzi from Lebanon (June 2012)

Ali Chavoshian from Japan (September 2012)

Tsukahara Kenichi from Japan (September 2012)

(5) Website Updates

Provide update information on status of planned activities for the current year, results of participated international conferences etc.

(6) Inputs to International Conferences on Disaster Risk Management

The Committee has provided inputs to the following International Conferences.

- i. The 80th Annual Meeting and 24th Congress of the International Commission on Large Dams have been held from 6th to 9th June 2012 in Kyoto, Japan. Including Dr. Yumio Ishii who was invited as the Chair of WFEO-CDRM, 1600 attendees from 95 countries in the world participated in the Congress.
- ii. World Ministerial Conference on Disaster Reduction in Tohoku has been held from 3rd to 4th July 2012. Dr. Yumio Ishii attended the Conference by invitation as the Chair of WFEO-CDRM. 300 attendees from 63 countries, 14 international organizations, local governments etc. participated in the Conference.

- iii. International Conference on Disaster Management 2012 is to be held from 24th to 25th August 2012 in Kumamoto Prefecture, Japan. The Chair Dr. Yumio ISHII has been invited to the Conference as a Keynote speaker. The committee member Prof. Toshimitsu Komatsu will also participate in the Conference and Dr. Chan Wirasinghe who is also the member of CDRM will attend the meeting of the Steering Committee.
- iv. The Chair Dr. Yumio ISHII attended the MLIT-WB-JICA co-organized “Seminar on Sharing Lessons from Great East Japan Earthquake” which was held as a side event of the World Bank on 14th October 2012. Participants discussed the impact of disruption in supply chains which has become a great issue in this global economy.

(7) 2012 International Symposium (Reference 2, 3)

The WFEO-JFES-AIJ Joint International Symposium was held on 13th September 2012.

Organized by: Architectural Institute of Japan (AIJ), Japan Society of Civil Engineers (JSCE)

Co-Organized by: Japan Federation of Engineering Societies (JFES)

World Federation of Engineering Organizations (WFEO)

Supported by: Science Council of Japan (SCJ) and Other Organizations

Date and Time: Thursday, 13th September 2012 09:00 am–12:30 am

Venue: Lecture Room ES025, ES Hall 2nd Floor, Nagoya University Higashiyama Campus

09:00 Start of the Program

Moderators: Kazumasa ITO (WFEO-CDRM/ CTI Engineering Co., Ltd.)

Seishi YAMADA (AIJ/ Toyohashi University of Technology, Professor)

Opening Address by Akira WADA (President of AIJ/ Member of SCJ Committee on WFEO)

09:15 Session Part I (Tentative titles)

Damage of Bridges Due to 2011 Great East Japan Earthquake

Kazuhiko KAWASHIMA (JSCE/ Tokyo Institute of Technology, Professor)

Issues of Damage Reduction and Resilience of Affected Communities in Sanriku Area

Tsutomu SHIGEMURA (AIJ/ Kanagawa University, Professor)

Flood Management in Urban Area

Teeradej TANGPRAPRUTGUL (Former Director-General of Dept. of Drainage and Sewerage,

Bangkok Metropolitan Administration., Thailand)

10:45-10:50 Break**10:50 Session Part II** (Tentative titles)

Recovery from Great Sichuan Earthquake

Wenlihan HEISHA (Guangzhou University, China, Professor)

Disaster Risk Reduction for Bridge Structures

Teruhiko YODA (JSCE/ Waseda University, Professor)

Long-period Ground Motion and High-rise Buildings

Taiki SAITO (AIJ/ Building Research Institute, Senior Researcher)

12:20 Round-up Session

Closing Address by Yumio ISHII (Past President of JSCE, Member of SCJ Committee on WFEO, Vice

President of WFEO and Chair of WFEO-CDRM)

12:30 End of the Program**(8) Face to Face Meeting (Reference 4)**

The 3rd Face-to-Face meeting of WFEO Standing Committee on Disaster Risk Management was held on 17th September 2012. The chair Dr. Ishii reported the result of annual activities including the status of coordination with other international organizations and recommendations made at international conferences. Discussed items included admission of new two members, appointment of vice chairs, and establishment of new subcommittee for non-structural measures (tentative title). The committee gave approvals for these items.

(9) Launch of New Subcommittee

The new subcommittee has the structure as follows.

1) Formation of new Sub-Committee

A new Sub-Committee with the objective of developing resources for developing capabilities and resilience in natural disaster risk management was formed at the meeting of the WFEO Committee for Disaster Risk management in Ljubljana Slovenia, 17 Sept 2012.

It is proposed that the new Sub-Committee will complement the work of the existing CDRM sub-committees. The scope of work of the Sub-Committee includes:
provide information and support to practitioners around the world, especially developing countries, to develop disaster risk management practices and programs appropriate to their social and economic needs

Focus on resources and good practices for natural disaster risk management.

Possible outcomes of the Sub-Committee would be a manual of good practices in natural disaster risk management, training materials and website of resources.

2)Chair of Sub-Committee

The CDRM meeting agreed that the Chair of the new sub-committee should be Dr. Marlene Kanga, Engineers Australia

Planned activities of this subcommittee include, but are not limited to the following.

Provide information and support to practitioners around the world, especially developing countries, to develop disaster risk management practices and programs appropriate to their social and economic needs.

Focus on good practices such as:

- ✓ Government governance frameworks
- ✓ Implementation of non-structural measures e.g. Land use and planning
- ✓ Tools for natural hazard awareness and disaster risk reduction awareness e.g. Natural hazard risk modeling, early warning systems
- ✓ Implementation of natural hazard emergency readiness and response plans
- ✓ Natural hazard risk communication strategies
- ✓ Natural disaster awareness education
- ✓ Materials, tools and information that will assist with developing capacities for natural disaster risk management, especially in developing countries

9. Collaboration with International Organizations

(1) Coordination with UNESCO

In response to the result of the meeting with UNESCO held in March 2012, discussions have been conducted with Urban Flood Management and Disaster Risk Mitigation in UNESCO (UNESCO-IHE), International Center for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM) etc. Dr. Ali Chavoshian from ICHARM joined WFEO-CDRM and discussed items concerning water-related disasters.

(2) Coordination with OECD

Concerning coordination with OECD, the following approach was suggested through WFEO-UN Relation Committee (WURC).

“This is Kazumasa ITO as member of DRM committee.

I communicated your document of OECD/WFEO "Joint initiative" with our Chair and we would like to input some words to document as follows.

The part which you described as SCOPE, after Number 2, he proposes to add "3. Practical use of engineering expertise on disaster risk management which is indispensable for sustainable growth of society". Disaster Risk Management is basically important technology for “Engineering innovations for sustainable development ”.

(3) UNEP Report

CDRM provided input to WFEO Quadrennial Report to UNEP as follows.:

Since the establishment of CDRM in 2009, the committee has been advocating the significance of disaster risk management at every occasion. The Draft Guideline on Water-related Disaster Risk Management published in 2009 suggests that;

- ✓ Every disaster is essentially social phenomena regardless of whether it is natural or human induced;
- ✓ Multiplied and indirect damage should be taken into account in evaluating disaster damage; and
- ✓ Countermeasures against disasters should be prepared by integrating structural measures and non-structural measures.

CSD-17 held before the establishment of CDRM in 2009 emphasized disaster issues only from the viewpoint of water shortage, and there was no indication of disaster issues from the perspectives of flood, tsunami or earthquake. CSD-18 and CSD-19 addressed issues of transportation and supply chains, but it did not go further to point out that deterioration in supply chains may induce significant indirect damage. CDRM on the other hand

recognized the importance of these issues in examining specific disaster response, and stressed these points of views at ISDR Conference held in Geneva in May 2012, where a clear statement was made to suggest that indirect damage should be addressed, and that the conventional Benefit-Cost method is not appropriate for evaluating the effect of investment for disaster risk management.

As part of continuing efforts of CDRM, it provided inputs to WFEO declaration for Rio+20 in 2012, which explicitly state that Disaster Risk Management is the indispensable factor in Sustainable Development.

CDRM further proposed at WEF2012 in Ljubljana the issues of indirect damage, and integrated disaster risk management, and disaster-related investment evaluation. It also established a new sub-committee on non-structural measures.

10. Plans for 2013

CDRM will conduct its activities for 2013 based on the action policies as shown below.

(1) Proposals for continuing actions for the second term

It has been four years since establishment of CDRM, finishing its first term in September 2013. Japan will stand as the host nation of the committee for the next four years for the second term (2013-2017) and will propose so at the WFEO Executive Council meeting and General Assembly meeting. If it is approved, the committee plans to have the following organizational structure.

Chair: Toshimitsu KOMATSU (Present Leader of WRDRM Subcommittee)

Vice Chair: Syunsuke IKEDA/Vilas MUJUMDAR (Present Vice Chairs)

WRDRM Subcommittee Leader: Kenichi TSUKAHARA

WQDRM Subcommittee Leader: Akira WADA

RDRM Subcommittee Leader: Marlene Kanga

Secretary: Kenichi TSUKAHARA

(2) Inviting new members

New members will be recruited by requesting members of WFEO Executive Council for nomination.

(3) Creating contents for CDRM's website in WFEO home page

Planned contents for the CDRM website in WFEO homepage are as follows;

Objectives, Organizational structure, publication, minutes of meetings, etc.

(4) Editing and releasing a electronic Newsletter of CDRM (one or two issues/year)

News letters containing reports of CDRM activities will be prepared and distributed.

(5) Revising draft Guideline for Earthquake-related DRM of Seismic Retrofit Technology for Buildings and Infrastructure, Seismic Isolation Technology and Construction Methods for Earthquake-proof Structures etc.

Based on the study results of Earthquake-related Disaster Risk Management Sub-Committee, the draft Guideline for Earthquake-related disaster risk management will be developed and revised.

(6) Revising drafted Guideline for Water-related DRM (Fundamentals, Floods and Tsunamis) and contacting to receive author's copyright for quotations

(7) Preparing a draft for DRM Guideline for Droughts and Storm Surges

Studies on droughts, typhoons, and storm surges will be conducted to develop the preliminary draft of the guideline for water-related disaster risk management for droughts and storm surges.

(8) Holding the 8th WFEO-JFES Joint International Symposium: Disaster Risk Management

The 7th WFEO-JFES Joint International Symposium is to be held for a period in September 2012. It will be co-hosted by WFEO, Science Council of Japan (SCJ), and Japan Federation of Engineering Societies (JFES), Japan Society of Civil Engineers (JSCE) and Architectural Institute of Japan. Symposium proceedings will be prepared and published.

(9) Participating and arranging to organize a session or panel on DRM in World Engineering Summit, September, 2013, Singapore

The DRM session is to be organized to exchange latest information on disaster risk management and disaster damage caused by disasters occurred in recent years. Proceedings will be prepared and distributed in a printed version to participants of the panel session.

(10) Coordination with international organizations through providing inputs and exchanging opinions at International Symposiums and international conferences. (UNISDR, UNESCO etc.)

Reference 1

First page of the Published Newsletter

ISSUE
September
2012



World
Federation of
Engineering
Organizations

CDRM Newsletter

Newsletter of
Standing Technical Committee on Disaster Risk Management



In this issue

- CDRM Annual Report **P.1**
- International Exposure **P.2**
- Special Reports **P.3**
- Upcoming Events **P.4**

CDRM Action plan (short-term)

- Improving the information network and Homepage.
- Publishing the Revised Guidelines on Disaster Risk Management for Water-related and Earthquake-related disasters.
- Organizing the 6th Joint International Symposium on Disaster Risk Management.
- Implementing the field investigation of mega-disasters.
- Organizing the panel on DRM and the CDRM meeting at Executive Council meeting and Engineers Congress in Slovenia in September, 2012.
- Studying the new appraisal method appropriate for disaster risk management projects.

Annual report of the committee has been submitted

The annual report covering 2009 to 2011 activities of the standing technical committee on disaster risk management has been submitted by the committee chair, Dr. Ishii (P.E.Jp). The following is a summary of the report. For full report please visit WFEO Website.

The WFEO standing technical Committee on Disaster Risk Management (CDRM) was established at the General Assembly held in December 2009, Kuwait. The Committee has now more than 40 members from 15+ countries, and consists of two Sub-committee on Water-related Disaster Risk Management (WDRM) and Earthquake-related Disaster Risk Management (EQDRM). The following are main activities of CDRM from 2009 to 2011:

- > JFES-WFEO Joint Symposium on DRM: The Japan Federation of Engineering Societies (JFES) and WFEO joint symposium on DRM was held in 2008, 2009, and 2010 in succession, in cooperation with The Science Council of Japan and the Japan Society of Civil Engineers, as a venue for exchanging technological information on disaster response and disaster mitigation between countries in the world. The 2011 joint symposium on DRM was held at Matsuyama, Japan. It has focused on "The 2011 off the Pacific Coast of Tohoku Earthquake" or "The East Japan Great Earthquake".
- > Panel on DRM: The Panel to discuss disaster risk mitigation was held in 2010 WFEU Congress in Argentina.
- > Field Investigation: Following the major earthquake disasters occurred in Chile (2010), New Zealand (2011), and The Great East Japan Earthquake and Tsunami (2011), CDRM delegations were dispatched to investigate the status of the disasters and the extent of damage. The results of these investigations will be utilized in developing a guideline for earthquake disaster risk management to be published in near future.
- > CECAR-5 Presentation: In August 2010, a lecture titled "An Integrated Framework of Flood Risk Management for Climate Change Adaptation" was given in The 5th International Civil Engineering Conference in the Asian Region, Engineers Australia, together with the Australasian Structural Engineering Conference (CECAR-5).
- > UN-ISDR Presentation: CDRM has an active participation in the 3rd Session of the Global Platform for Disaster Risk Reduction in Geneva, Switzerland in May 2011.
- > Revising the Vision and Mission of CDRM: The draft of the revised Vision and Mission was proposed to the committee meeting at Buenos Aires in October, 2010 and it has been approved.

Reference 2

The 6th WFEO-JFES Joint International Symposium Program

The 6th WFEO-JFES-AIJ-JSCE Joint International Workshop on Natural Disaster Mitigation

Organized by: Architectural Institute of Japan (AIJ) and World Federation of Engineering Organization (WFEO)

Co-Organized by: Japan Federation of Engineering Societies (JFES) and Japan Society of Civil Engineers (JSCE)

Supported by: Science Council of Japan (SCJ)

Date and Time: Thursday, 13th September 2012 09:00 am–12:30 am

Venue: Lecture Room ES021, ES Hall 2nd Floor, Nagoya University Higashiyama Campus

Capacity: 100 persons

Admission: Free

Language: English (No interpretation)

Program

09:00 Start of the Program

Moderators: Kazumasa ITO (WFEO-CDRM/ CTI Engineering Co., Ltd.)

Seishi YAMADA (AIJ/ Toyohashi University of Technology, Professor)

Opening Address by Akira WADA (President of AIJ/ Member of SCJ Committee on WFEO)

09:15 Session Part I (Tentative titles)

Damage of Bridges Due to 2011 Great East Japan Earthquake

Kazuhiko KAWASHIMA (JSCE/ Tokyo Institute of Technology, Professor, President of JAEE)

Tsunami Disaster in Sanriku Fishing Villages and the Challenges of Disaster Mitigation and Restoration

Tsutomu SHIGEMURA (AIJ/ Kanagawa University, Professor)

Flood Management in Urban Area

Teeradej TANGPRAPRUTGUL (Former Director-General of Dept. of Drainage and Sewerage, Bangkok Metropolitan Administration., Thailand)

10:45-10:50 Break

10:50 Session Part II

Recent Development and Application on Seismic Isolation in China

Wenliuhan HEISHA (Guangzhou University, China, Professor)

Damage Reduction Countermeasures for Bridge Structures

Teruhiko YODA (JSCE/ Waseda University, Professor)

Long-period Ground Motion and High-rise Buildings

Taiki SAITO (AIJ/ Building Research Institute, Senior Researcher)

12:20 Round-up Session

Closing Address by Yumio ISHII (Past President of JSCE, Member of SCJ Committee on WFEO, Vice President of WFEO and Chair of WFEO-CDRM)

12:30 End of the Program

Reference 3

Report on WFEO-JFES-AIJ-JSCE Joint International Symposium

Steering Committee for Joint International Symposium

1. Introduction

The WFEO-JFES-AIJ-JSCE Joint International Symposium on Natural Disaster Mitigation, which is the joint effort of the WFEO Committee on Disaster Risk Management and national academic societies, was held on 13th September 2012 as part of National Convention of Architectural Institute of Japan held in Nagoya University.

For the joint organization of this International Symposium, a steering committee to act as a host was established with members from WFEO Committee on Disaster Risk Management, International Committee of Japan Federation of Engineering Societies, Architectural Institute of Japan, Japan Society of Civil Engineers, and with support provided by Science Council of Japan.

Lecturers were invited from national academic societies as well as from China and Thailand, and there were more than 60 participants in the field of science and academia, including research scholars and students from overseas. In the wake of the catastrophic damage to buildings and cities caused by 2011 Great East Japan Earthquake, WFEO and its member organizations such as JFES and SCJ cooperated with AIJ and JSCE as well as international organizations and individuals for organizing this symposium, which provided a significant opportunity for exchanging knowledge and expertise to promote technical skills for mitigating risk of natural disasters in every regions in the world.

2. Program of the Symposium

09:00 Start of the Program

Moderators: Kazumasa ITO (WFEO-CDRM/ CTI Engineering Co., Ltd.)

Seishi YAMADA (AIJ/ Toyohashi University of Technology, Professor)

Opening Address by Akira WADA (President of AIJ/ Member of SCJ Committee on WFEO)

09:15 Session Part I (Tentative titles)

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Tsutomu SHIGEMURA (AIJ/ Kanagawa University, Professor)

Flood Management in Urban Area

Teeradej TANGPRAPRUTGUL (Former Director-General of Dept. of Drainage and Sewerage, Bangkok Metropolitan Administration., Thailand)

10:45-10:50 Break

10:50 Session Part II

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Long-period Ground Motion and High-rise Buildings

Taiki SAITO (AIJ/ Building Research Institute, Senior Researcher)

12:20 Round-up Session

Closing Address by Yumio ISHII (Past President of JSCE, Member of SCJ Committee on WFEO, Vice President of WFEO and Chair of WFEO-CDRM)

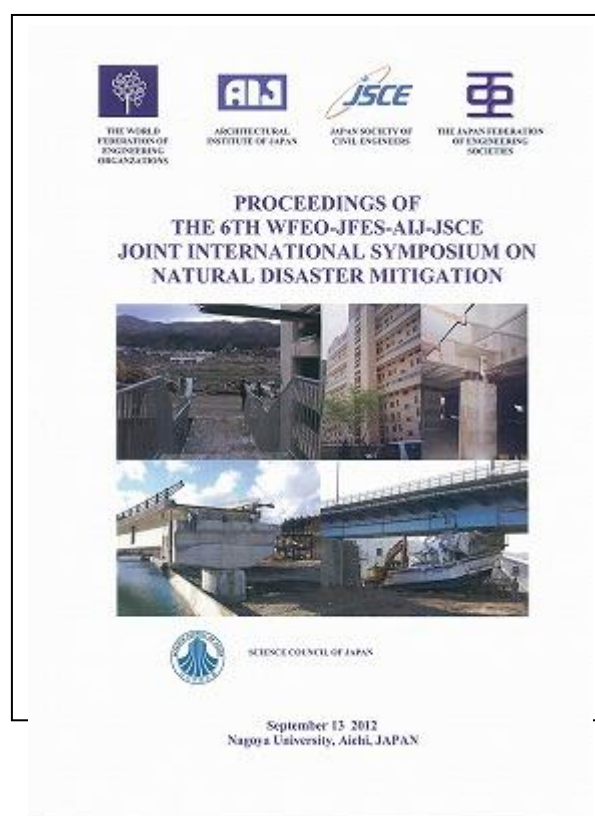
12:30 End of the Program

Items	Budget	Settlement	Description
Copy of proceedings	200,000	213,000	50 copies in color, 50 copies in black and white
Fees and travel expenses of speakers	50,000	100,000	Foreign speakers×2, Japanese speakers 10,000×4
Reception	0	25,000	Buffet style for 18 persons
Venue	0	0	Provided by AIJ
Signboard	0	40,000	
Others	3,000	0	
Total	253,000	388,000	Covered by WFEO budget

4. Proceedings

Consists of prefaces and forewords of organizers (WFEO, AIJ, JFES, and SCJ) and articles of lecturers.

Distributed at WFEO Executive Council.



5. Summary of the Symposium

Six speakers were invited to provide lectures for the Symposium, three persons each from Architectural Institute of Japan (AIJ) and Japan Society of Civil Engineers (JSCE), and both included a foreign lecturer. All of the lecturers are leading persons in the relevant field, and there were too many questions after the session which far exceeded the scheduled period of time, thus some of the attendees were asked to question directly to lecturers after the symposium. Participants showed a great deal of interests in subjects related to the East Japan Great Earthquake, and many questions concerning the results of the earthquake-related technical research were asked. There were also questions to ask the status of the damage caused by flood disasters in Thailand, and those related to measures to cope with frequent occurrence of earthquakes in China.

The host organization, Architectural Institute of Japan acknowledged the positive results gained from active exchange of opinions by a large number of participants, despite the fact that the whole program including lectures and question-and-answer sessions were provided in English without interpretation.



Lecturers and Concerned Parties of the Symposium



Opening address by AIJ
President



Presentation Session

6. Reception

After the Symposium, participants gathered in the restaurant located on the 1st floor of the venue (Nagoya University, ES Hall), and active discussions were made between representatives of AIJ, JSCE, JFES, and SCJ during the buffet style reception.



Reference 4

World Federation of Engineering Organizations

Standing Committee on Disaster Risk Management (2009-2013)

Face-to-Face Meeting No. 3

Monday September 17, 2012

9:00 to 13:00

Grand Hotel Union (White Room 1/3)

Ljubljana, Slovenia

Draft Agenda

1. Welcome and Introductions
2. Meeting Summary: Face-to-Face Meeting No. 2 – September 4, 2011
3. Action Item and Result Review
4. Chairs Report
 - 4.1 WFEO Executive Board Meeting – March 2012
 - 4.2 UN Commission on Sustainable Development – Rio + 20
 - 4.3 Communication with UNESCO
 - 4.4 Communication with OECD
5. Reporting of Member and Observer Activities and Issues
6. WFEO DRM Newsletter - 2012 Issue and Publication Schedule
7. Other business
 - 7.1 International Session on Disaster Risk Management at WEF 2012
 - 7.2 WFEO – DRM Website Update
 - 7.3 Membership Review

Strategic Plan

8. 2009-2013 Strategic Plan Theme Leader Reports
 - 8.1 Water Related Disaster Risk Management
 - 8.2 Earthquake Related Disaster Risk Management
 - 8.3 Proposed New Sub-Committee Strategic Plan
9. 2009-2013 Strategic Plan Review and Approval
10. Closing Remarks and Adjournment

Standing Committee on Disaster Risk Management Minutes of Third Annual Meeting

Monday September 17, 2012 9:00 to 13:00

Grand Hotel Union (White Room 1/3)

Ljubljana, Slovenia

1. Attendance

Chair

Dr. Yumio Ishii Japan
(Leader of Water-related Sub-Committee)

Water-related Sub-Committee Members

Dr. Marlene Kanga	Australia
Prof. Chan Wiransinghe	Canada
Prof. Syunsuke Ikeda	Japan
Prof. Toshimitsu Komatsu	Japan
Prof. Kazutoshi Kan	Japan
Eng. Abdullah E. Al-Otaibi	Kuwait

Earthquake-related Sub-Committee Members

ER. Ashok Basa	India
Prof. Vilas Mujumdar	USA
Prof. Paul S. Nacouzi	Lebanon

Observers

Dr. Branko Zadnik	Slovenia
Mr. Pratarp Singh	Fiji
Prof. David Hood	Australia
Mr. Obaid Al-Otaibi	Kuwait
Eng. Anthony Ofori-Atta	Ghana
Dr. Ayao Tsuge	Japan
Eng. Rodolphe A. Karam	Lebanon
Dr. Martin Van Veelen	South Africa
Eng. Barry Grear	Australia
Eng. Jassim Al Qullaf	Kuwait
Eng. Farai Mavhiya	Zimbabwe
Eng. Catherine Karakatsanis	Canada
Eng. Hayley Coleman	United Kingdom
Eng. Darrel Danyluk	WFEO CEE
Eng. Fethi Thabet	Tunisia
Eng. Saviour Baldacchino	Malta

Secretariat

Dr. Kazumasa Ito	Japan
Eng. Hirotaka Hiyama	Japan

1. Welcome and Introductions

The moderator Dr. Ito declared the meeting opened and described the agenda.

The chair Dr. Ishii welcomed participants and showed his expectations to the activities of CDRM that should help restoring society's trust in engineering capacity for preventing and mitigating disaster damage.

2. Meeting Summary: Face-to-Face Meeting No. 2 – September 4, 2011

The summary of the minutes of the last committee meeting, the second annual meeting of CDRM held as part of WEC2011 and WFEO General Assembly Meeting in Geneva, Switzerland on 4th September 2011, was read for clarification. The minutes were confirmed and approved by committee members.

3. Action Item and Result Review

Action items of CDRM for 2011, including revision and preparation of guidelines, hosting of international symposiums in Japan etc., were reported. Prof. Mujumdar requested the secretariat to notify the schedule of the international symposiums. Dr. Kanga suggested the committee's publication, Draft Guideline of Water-related Disaster Risk Management, should be uploaded to the website rather than distributing it in paper.

4. Chair's Report

The Chair Dr. Ishii reported chair's activities in this year, including the Executive Board meeting in March 2012, inputs to Rio+20, and the status of cooperation with UNESCO/OECD. Concerning the cooperation with UNESCO, Prof. Mujumdar asked the mechanism of the ongoing discussion with the Hydrological division of UNESCO, and the chair answered it is a virtual meeting. The participant asked the process of the appointment of the expert for UNESCO and Dr. Ishii answered it is based on the chair's nomination in response to the request made by the former President. He suggested other expert may be nominated accordingly. Dr. Ito mentioned that the program or structure has not yet been decided and these matters will be clarified by discussion with concerned parties.

5. Proposal for Establishment of Sub-Committee

Dr. Kanga made a proposal to form a new sub-committee which was tentatively named as Sub-Committee for Capacity Building for Non-Structural Measures for Natural Disaster Risk Management. The sub-committee will focus on non-structural measures, such as training, emergency response, land use planning, warning/evacuation, etc. in the aim of

supporting developing countries who needs capacity in this area. Prof. Ikeda suggested the name of the sub-committee should be changed in order to avoid confusion, as there is a WFEO Standing Committee on Capacity Building. Dr. Kanga agreed to reconsider the name of the sub-committee.

Dr. Wirasinghe introduced his report concerning disaster reduction situation in Canada, and activities of International Institute for Infrastructure, Renewal and Reconstruction (IIIR).

6. WFEO-CDRM Newsletter - 2012 Issue and Publication Schedule

The CDRM Newsletter Issue September 2012 was distributed to the participants. It was explained that the Newsletter will be issued once a year.

7. Other business

7.1 International Session on Disaster Risk Management at WEF 2012

It was announced that the Session on Disaster Risk Management was to be held on 2 days after the meeting. Members were encouraged to attend the one-day session.

7.2 WFEO – DRM Website Update

It was explained that the website on the WFEO Committee on Disaster Risk Management is now open for releasing and exchanging information among members, and that the Secretariat is regularly updating news and activities.

7.3 Membership Review

The Chair announced, for the purpose of encouraging the activities of CDRM, he appointed Prof. Mujumdar and Prof. Ikeda to become vice chairmen of the Committee, and Prof. Komatsu to become the leader of the Water-related Disaster Risk Management Sub-Committee. There was no objection.

It was also announced that the Chair approved the membership of Prof. Nacouzi, Prof. Shimizu, Prof. Tsukahara, and Dr. Chacoshian to join as new members of CDRM. Prof. Nacouzi from Lebanon introduced himself and was welcomed by participated members.

Mr. Hiyama explained the requirement of re-registration as members of CDRM as there had been some members who remained out of contact. It was assured that those who attended the meeting were excluded from the re-registration procedure.

8. 2009-2013 Strategic Plan Theme Leader Reports

8.1 Water Related Disaster Risk Management Strategic Plan

The Leader Prof. Komatsu described the planned activities of the Water-related Disaster Risk Management Sub-Committee.

8.2 Earthquake Related Disaster Risk Management Strategic Plan

On behalf of the leader of the sub-committee Prof. Kawashima, who was absent due to inevitable reasons, Prof. Mujumdar described the planned activities of the Earthquake-related Disaster Risk Management Sub-Committee.

8.3 Proposed New Sub-Committee Strategic Plan

Dr. Kanga made proposals for future activities of the new sub-committee. Firstly, it was suggested that the name of the sub-committee is being reviewed and finalized with consultation of the Chair. She also proposed the activity of the sub-committee includes publicizing education manuals and conducting on-line courses through websites, and organizing seminars and conferences which will be open to the public. Members of the sub-committee will be decided by self-nomination of members or by recruiting from outside. The latter will require acquisition of membership status by recommendation of him or her national member organization as specified in WFEO rules and procedures.

9. 2009-2013 Strategic Plan Review and Approval

Eng. Al-Otaibi proposed to make a new sub-committee to deal with energy-related disasters which focuses on man-made hazard risks. Members discussed about the definition and classification of disasters, and prospects of establishment of another sub-committees based on the types of disasters.

The Chair Dr. Ishii proposed to concentrate on the water-related disasters and earthquake-related disasters until the first term ends in 2013, and to examine the possibility of expanding the area of activities to deal with other types of disasters for the second term of CDRM.

The Strategic Plans in item 8 were approved by committee members.

10. Closing Remarks and Adjournment

Prof. Ikeda thanked the participants for the productive discussions made on the day and declared the meeting closed.