

Committee on DRM Newsletter

Newsletter of Standing Technical Committee on Disaster Risk Management

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DRM committee Action Plans for the 2nd-term (2013-2017)

• Major purposes:

- (1) Active collaboration with other international organizations
- (2) Awareness campaign though holding international symposiums
- (3) Practical developments of disaster risk management (DRM) and adaptation technologies under global climate change

• Subcommittee plans:

- (s1) Water-related DRM
 - Development of methods, tools, and guidelines for water-disaster risk management/prevention, warning systems etc. based on a standardized procedure
- (s2) Earthquake-related DRM
 - Contributions/inputs to an international conference for DRM by engineering views.
- (s3) Capacity Building for Natural DRM
 - Creation of practical and training manuals for Capacity Building
 - Establishment of web-based communication of information
 - Holding of seminars, etc.



Photos in the no.7 face-to-face meeting of WFEO-CDRM in Lima (Peru), on December 3, 2016



Mid-term report of the WFEO-CDRM, Mar. to Sept. 2016

The 2016 midterm report was submitted to the WFEO headquarters in September 2016. A summary of the report is as follows (For the full report, see the WFEO-CDRM website).

>Organization structure: The WFEO-CDRM has maintained its structure in 2015: a Chair, three Vice-chairs, three subcommittee leaders, a secretary, a deputy secretary, and 14 members from 7 countries (see [Page 5](#)). A new vice- chair and a new subcommittee leader (disaster capacity building) were replaced and four new members were added. The number of members was reduced due to strict confirmation processes to maintain the membership of the committee.

>International Collaboration and Workshop: The WFEO-CDRM collaborated with I3R2 for an international conference on the I3R2 in Kandy, Sri Lanka, in August 2016 (see [Page4](#)). It had an international workshop with Tainan City Government and National Cheng Kung University in Tainan, Taiwan China, in September 2016 (see [Page 2](#)).

>Financial report: As to the accounting balance for WFEO-CDRM activities during 6 months of 2016, the balance status shows zero revenue due to no allocation from the WFEO headquarter, and spending of ~10,000 EUR for all expenses including travelling fees. Spending increases by the final balance. These expenses are supported by WFEO-CDRM secretariat, SCJ, and JFES.

>Other businesses: the other planned activities have done or been in progress (a) routine tasks such as recruitment of new members, update of the official WFEO-CDRM website, issue of the E-newsletter; (b) creation and update of DRM guidelines for earthquake, flood-debris, drought and storm-surge disasters; (c) the international collaboration with UN family (UNESCO and UNISDR) and other international organizations (e.g., FEIAP and ACECC) related to the UN-SDGs with potential collaboration with other STCs; and (d) the 7th face-to-face meeting of WFEO-CDRM in December 2016 in Lima, Peru (see [Page 3](#)).

>Near-future strategic plans: In 2016, the CDRM will continue to work for promoting international collaborations for the UN-SDGs with UN-bodies and ACECC, maintaining the membership and activity's records/reports, and establishing a cooperative relationship with FEIAP's disaster committee.

Note: ACECC= Asian Civil Engineering Coordinating Council; JFES= Japan Federation of Engineering Societies; FEIAP =Federation of Engineering Institutions of Asia and the Pacific; I3R2= International Institute for Infrastructure Renewal and Reconstruction; SCJ= Science Council of Japan; STCs= WFEO Standing Technical Committees; UNESCO= United Nations Educational, Scientific, and Cultural Organization The; UNISDR= United Nations Office for Disaster Risk Reduction; UN-SDG= United Nations - Sustainable Development Goals.

Report on " the 2016 International Symposium on Disaster Prevention and Reduction in Tainan, Taiwan China: In Conjunction with the 10th Joint International Symposium on Disaster Risk Management.

Organized by World Federation of Engineering Organizations (WFEO); Federation of Engineering Societies (JFES); Tainan City Government; National Cheng Kung University - Disaster Prevention Research Center (NCKU-DPRC);

Supported by Japan Society of Civil Engineers (JSCE); Architectural Institute of Japan (AIJ).



An international workshop on disaster prevention and reduction was held on September 28, 2016 in Tainan, Taiwan China (hereinafter, TC). For the workshop, 10 speakers from TC and Japan—recognized as natural disaster experts—were invited. Approximately 50 participants were attended during two sessions related to earthquake and water disasters despite the fact that the powerful Typhoon Megi had inflicted damage throughout TC the day before. The aim of the workshop was to facilitate information exchange and dissemination activity for disaster prevention and reduction in the East Asia region (where natural disasters often occur). It was organized by the Tainan City Government (Mayor Ching-te Lai), NCKU-DPRC (Professor and Director Chjeng-lun Shieh), WFEO - Committee on Disaster Risk Management, WFEO-CDRM, (Professor Emeritus and Chair Toshimitsu Komatsu), and JFES (Dr. Junichi Satoh, president). The workshop was also supported by the Japanese academic organizations: AIJ and JSCE. The original program and venue were modified because of the typhoon's impact.

Opening remarks were given by Mr. Jun-yan Hou—Executive consultant for the Office of Disaster Management in the Tainan Fire Bureau—instead of the mayor of Tainan. Mr. Hou reported on recent events associated with natural disasters in TC and addressed the importance of collaborations between TC and Japan for disaster prevention. In the earthquake disaster session, Dr. Shin-ping Lee (NCKU-DPRC), the first speaker, discussed the Tainan earthquake that occurred on February 6, 2016. Mr. Hou followed with a description of the reconstruction process after the Tainan earthquake. Speakers from Japan included Mr. Nobuhiko Shiraishi (Shizuoka Prefecture), Prof. Susumu Kono (Tokyo Institute of Technology), Prof Emer. Shoichi Nakai (Chiba University), and Prof. Naoto Tanaka (Kumamoto University). Their respective topics included disaster countermeasures of local governments, development of new materials for seismic strengthening methods, measures against earthquake-induced liquefaction, and disaster-prevention action plans of local communities. Finally, Prof. Chjeng-lun Shieh organized an open-ended discussion in which the speakers and audience actively performed.



Group photo after the water disaster session



Dr. Komatsu presented his research topic related to the implementation of adaptation technologies to water disasters under climate change.



The audience in the hall

Another session associated with water disasters was held simultaneously the building housing the Engineering Department at NCKU; the four speakers included Prof Emer. Toshimitsu Komatsu, Prof. Kenichi Tsukahara (WFEO-CDRM), Prof. Shao-hua Marko Hsu (Feng Chia University, TC), and Dr. Wen-chi Lai (NCKU-DPRC, TC). Their presentation included adaptation to climate change utilizing technical measures, cost-effective land use for protection during water and landslide disasters, bridge collapse mechanisms of flood and rainwater penetration systems in urban areas, and development of a forecast system using the empirical formula for landslides, respectively. Then, the four speakers returned the meeting hall where the earthquake session was held. At the end of two sessions, Dr. Shieh closed the international workshop.

On September 27, these speakers visited the Fire Bureau, Tainan City Government; additionally, some speakers took part in a field trip to past natural disaster sites on September 28, 2016.

Report on the 7th face-to-face CDRM in Peru

World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



CDRM

Committee on Disaster Risk Management

The seventh annual face-to-face meeting for WFEO-Committee on DRM (CDRM) was held at the Peruvian Association of Professional Engineers (CIP) in Lima, Peru from 14:00 to 16:30 on Sunday, December 4, 2016. Approximately 20 participants (including observers) engaged in many valuable discussions. The minutes are described as follows.

1. Opening Remarks

The committee chair (Prof. Komatsu) extended welcoming greetings to the attendees and emphasized the importance of face-to-face meeting among WFEO-CDRM members and the audience.

2. Self-introductions

Each participant introduced himself/herself briefly by stating their names and affiliations. A number of participants announced their organizations' activities shortly after.

3. Summary of the 6th face-to-face meeting

The summary of the minutes of the previous face-to-face meeting in Kyoto in November 2015 was reported.

4. Activity reports for 2016

The committee chair began by discussing the mission and vision of the WFEO-CDRM, and then reported the current membership status (four new members and a new subcommittee leader, replaced from the former leader Dr. Kanga). He went on to report several outputs from WFEO-CDRM activities, including routine activities (e.g., webpage update and e-newsletter publication) and international activities (e.g., inputs to Sendai Framework for DRR, the collaborative international conference with I3R2 in Kandy, Sri Lanka in August 2016 and the international workshop on DRM in Tainan, Taiwan China in September 2016). He also reported any activities performed by individual members in the disaster-related, regional and local organizations/ associations. In particular, current financial supports are not enough to make the WFEO-CDRM more active.

5. Action plans for 2017

As for the 2017 term, two major international activities will be planned: an international symposium on DRM with Japanese academic associations in Fukuoka, Japan in September 2017 and a collaborative conference with I3R2 in Beijing, China in 2017 summer. The committee secretariat will work for DRR parts of the UN's SDGs and



A photo of an ongoing presentation during the meeting

the UN's Sendai Framework strongly related to the SDGs, hosted by UNISDR to implement the action plans of the third WCDRR to sustainable societies. The individual members of the committee are planning to contribute to their local engineering associations and institutes related to disasters (e.g., ACECC and Disaster committee in the FEIAP).

6. Other business

- The subcommittee leader of the CBNDRM, Engr. Basa, reported the action plans for the CBNDRM for 2017. He will work for the UN Sendai Framework on DRR by the collaboration with disaster-related Asian associations (e.g., IEI and Disaster committee in the FEIAP).

- The committee chair had edited a book that describes the state-of-the-art implementation of climate change adaptation technologies.

- The committee chair announced that a successor host country for WFEO-CDRM would be Peru; the current host (Japan) must release the committee owing to the WFEO Rules of Procedure. Dr. Jorge E. Alva (CIP President) accepted the succession to host and discussed his expectations on the future activities.

7. Closing remarks and adjournment

The committee chair expressed his appreciation to the participants who had contributed to a valuable discussion and requested their continued support to the committee activities.

Note: ACECC= Asian Civil Engineering Coordinating Council; CBNDRM= subcommittee of Capacity Building for Natural Disaster Risk Management; CIP= Institute of Engineers in Peru – National Council; DRM= Disaster Risk Management; DRR= Disaster Risk Reduction; Engr.= honorific title of engineer; FEIAP= Federation of Engineering Institutions in Asia and the Pacific; I3R2= International Institute for Infrastructure Renewal and Reconstruction; IEI= Institute of Engineers (India); UN= United Nations; UNISDR= UN International Strategy for Disaster Reduction; WCDRR= World Conference on Disaster Risk Reduction, the 3rd conference in 2015 March, held in Sendai, Japan.

Report for the participation in the 12th International Conference of the International Institute for Infrastructure Resilience and Reconstruction (I3R2).

Prof. S. Chan Wirasinghe and Dr. Nobuaki Kimura (Photo-A), the members of the Committee on Disaster Risk Management in the World Federation of Engineering Organizations (WFEO-CDRM), participated in the I3R2 international conference with approximately 70 attendees, held in August 6-7, 2016 at University of Peradeniya, near Kandy, Sri Lanka (www.iiir.org/iiirr/conference). Prof. Wirasinghe supported the organizing committee of the I3R2 international conference because he is the founder of the I3R2. Dr. Kimura was the representative of Prof. Toshimitsu Komatsu (WFEO-CDRM Chair), who was a co-chair of the organizing committee, because Prof. Komatsu was unable to participate in the conference. Dr. Kimura presented his research related to natural disasters, entitled "Effective dam use for flood control during a heavy rainfall event" (Photo-B). For this conference, the WFEO-CDRM was unfortunately unable to send several members for the committee sponsored session, owing to short of budget, unlike the successful collaborated session in the last-year conference in Seoul, South Korea. The committee may continuously collaborate with the I3R2 to provide an opportunity of the various discussions for effective disaster risk reduction, one of the targets in the UN-SDGs. Note that The I3R2 is a natural disaster-related consortium, run by multiple universities in the world, which provides overall leadership in research, education, planning, design and implementation for natural disaster related mitigation, resilience enhancement, and reconstruction projects.

Note: UN-SDGs= United Nations-Sustainable Development Goals.



Photo-A, Prof. Wirasinghe and Dr. Kimura



Photo-B, Dr. Kimura was presenting.

Others business

New member introduction



Dr. Alberto Delgado (Peru)

Technical Manager
Disaster Risk Reduction Peru
International SAC

My interests are water and sewage earthquake resistant systems, tsunami research and Disaster Risk Management.



Dr. Peng Jing (China)

Vice President
China Institute of Water Resources and
Hydropower Research (IWHR)

We work on water to better the future



Dr. Jorge Elias Alva Hurtado (Peru)

President, Peruvian Association of Professional Engineers;
Distinguished member, National Academic of Science of Peru;
Member, Pan American Academy of Engineering



Dr. Fang Chen (China)

Professor, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

It is my honor to join the WFEO-CDRM. I would like to participate in the capacity building sub-committees contributing.

The WFEO-CDRM recruited four new members from China and Peru during 2016. The leader of the subcommittee of Capacity Building for Natural Disaster Risk Management was changed from Dr. Kanga (the previous leader) into Er. Basa because Dr. Kanga is now WFEO President Elect.



Er. Ashok Basa
A NEW leader of the subcommittee on Capacity Building for Natural Disaster Risk Management

Upcoming events

The 13th International Conference of The International Institute for Infrastructure Renewal and Reconstruction (I3R2): The WFEO-CDRM Secretariat may cooperate with the I3R2 for the 13th Annual Conference of the I3R2 to be held in Beijing (China) in early July, 2017.

The 11th Annual international symposium on disaster risk management (DRM): The 11th symposium on DRM will be held by WFEO-CDRM secretariat, and other Japanese academic institutes in Kyushu University (Japan), in the middle of September 2017.



KYUSHU
UNIVERSITY

Announcement for an event related to the implementation

of Sendai Framework: Prof. Tsukahara (WFEO-CDRM Secretary)

will participate in an international conference of the 2017 Global Platform for disaster risk reduction (GP2017) in Mexico in late May 2017. The GP2017 will provide the progress reports, information exchange, and discussions for the implementation of the "Sendai Framework for Disaster Risk Reduction 2015-2030," accepted in the WCDRR (2015, Japan).

Please visit the website: <http://www.unisdr.org/conferences/2017/globalplatform/en>



Committee on DRM Membership & Organization (As of January, 2016)

- 22 members from 7 countries.
 - Chair: Dr. Toshimitsu Komatsu
 - Vice chairs: Dr. Jorge E Alva, Dr. Syunsuke Ikeda, Dr. Vilas Mujumdar
 - Subcommittees
 - *Water-related Disaster Risk Management (WDRM), Leader: Prof. Kenichi Tsukahara
 - *Earthquake-related Disaster Risk Management (EQDRM), Leader: Dr. Akira Wada
 - *Capacity Building for Natural Disaster Risk Management (CBNDRM), Leader: Er. Ashok Basa
- Detailed information is available on in the CDRM website: http://www.wfeo.net/stc_disaster_risk_management/

Committee on DRM Newsletter Issue 01, January 2016

WFEO Standing Technical Committee on Disaster Risk Management (DRM Committee)

Background

The CDRM was established at the General Assembly held in December 2009, Kuwait.

Vision

Introduce and recommend knowledge and experiences to avoid disasters and promote sustainable and sound development. Contribute to identification, evaluation and mitigation of, and adaptation to disasters which are related to all aspects of human life, economy, social activities and environment.

Mission

- Exchange, share and transfer knowledge, technologies and expertise which are useful for minimizing risks of disaster by identifying, evaluating and mitigating, and adapting to disaster risks.
- Foster studies and investigations which are useful to disaster risk management including examples of the best practice and implementation, and document the results in the form of recommendations, guidelines, reports and booklets.
- Gather and disseminate information and provide recommendations on the mitigation of and adaptation to disaster risks to WFEO member countries, engineering societies and leading engineers.
- Facilitate capacity building of engineers in these areas.

Goals

- Create awareness of disaster risk, and introduce knowledge and experience to avoid disasters.
- Document recommendations, guidelines, reports and booklets to foster disaster risk management.
- Disseminate the information through WFEO member country linkages to decision makers, governmental organizations, engineering societies and leading engineers.
- Coordinate international efforts related to disaster risk management
- Organize and support conferences, presentations and workshops related to disaster risk management

The CDRM has a role of minimizing the potential damage and risk to human life and damage through the proper application of technology. The disasters which are closely related to all aspects of human life, economy, social activities and environment should be considered in the CDRM. Because there are broad ranges of disaster, disasters to be focused on should be determined based on the interests and concerns of the members of CDRM taking account of its role and priority.

The CDRM has to contribute to preparation and implementation of the corresponding knowledge and practices for enhancing resilience of the society to disasters, and mobilization of every resource to minimize the potential risk. The extent and level of damage and risk have to be decided based on discussions in the CDRM. The risk is not necessarily restricted to "risk" in the probabilistic concept, but should apply in a wider concept related to mitigation of and adaptation to danger resulting from disasters. The disaster risk management includes all aspects of actions taken for identification, evaluation and mitigation of, and adaptation to disasters.

WFEO-CDRM website: http://www.wfeo.net/stc_disaster_risk_management/