



THE 5TH TH MEETING OF THE WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)

CHAIR: RUEY-CHY KAO
13 OCTOBER 2015: 14:00-15:30

Item 1: Action Taken Report by Chair

- The Chairman has communicated with WG supporters and contributors as well as ICID Central Office for various issues during the 7th World Water Forum on April 12-17, 2015 at Daegu & Gyeongbuk, Korea.



Item 1: Action Taken Report by Chair



- For the short course, the Chairman has actively consulted with Taiwan Government to seek the grants. In order to seek more grants, the short course is planned to be held in Spring in 2016.
- For the publication of Special Issue of ICID Journal on SDTA in 2016, the Chairman and Vice Chairman have established the review committee.

Item 1: Action Taken Report by Chair



- The chairman hopes all of the WG members could continually help updating the ‘Basic Information’ related to the tidal area reclamation and conservation experiences for ICID website following the minutes of the 4th meeting of WG-SDTA.
- The Internal Workshop on “Environmental Hazards in Tidal Areas” was organized and will be held after the meeting.

Item 2: Review of the membership of the Working Group

- In order to increase the efficiency and functioning of the Working Group during annual face to face meeting and avoid spending a lot of time on administrative matters, MB has decided that the admission of new members or discontinuation of the membership of the group will be dealt by Chairman in consultation with Vice Chair, Secretary and ICID Central Office prior to the meeting itself through emails/ web conferencing.

Item 2: Review of the membership of the Working Group

- No new nominations have been received this year. The existing membership of the WG was shown. Any new nominations for the membership received during the meeting will be dealt suitably after the meeting.

Sl. No.	Members	Maximal From	2013		2014	
			Self	Contributed by mail	Self	Contributed by mail
1.	Dr. Ruay-Chy Kuo Chairman (2011) (Taiwan)	2007	*		*	
2.	S. Han P. Ribana, Vice-Chairman (2006) (The Netherlands)	2003	*		-	
3.	Dr. Ingwa Tang, Secretary (Japan)	2010	*		*	
4.	Dr. (M) Hsin-Wang Wang, Chairman Taipei as Young Professional	2010	*		#1	
5.	Prof. Byō Bunzo Wajaputero (Indonesia)	2011	*		*	
6.	Dr. Jeongyeol Jung (Korea)	2014			*	
7.	Prof. Zhang Zhensu (China)	2012			*	
8.	S. H. Idr Hakeem bin Mohd Ghazali (Malaysia)	2012	*		*	
9.	Secretary General (ICID)		#		#	
Permanent Observers / Observers						
1.	Dr. Ji Jin Hoan (Korea)					
2.	Dr. Omasa To (Japan)					
3.	Mb. Ritsuyuki Haruko Saitoh (Indonesia)					
4.	Mb. Harry Dorocho (FACI)					

Item 2: Review of the membership of the Working Group

- The chairman hopes more NCs located in the tidal area to join the WG-SDTA to contribute on the sustainable development of tidal areas so that encourages the NCs located in the tidal area to nominate the membership at WG-SDTA.

Item 3: Internal Workshop on Environmental Hazards in Tidal Areas

- This year, the Working Group on Sustainable Development of Tidal Areas (WG-SDTA) organized an Internal Workshop. The main theme of the workshop is 'Environmental Hazards in Tidal Areas' and other sub-topics are: (a) Sea level rise, storm surge, tsunami, land subsidence, food, saltwater intrusion and so on; (b) Hazards/Risk/Ecosystem management in tidal area: monitoring, forecasting, mitigation, economic impact, vulnerability and strategies assessment; (c) Stakeholder involvement and integrated management on environmental hazards in tidal area.

Item 3: Internal Workshop on Environmental Hazards in Tidal Areas

- Five papers will be presented in the workshop. WG supporters and contributors are invited to join and share valuable knowledge and experiences. Also thank the authors who gave their time and support to this workshop.

Time	Title	Authors
16:00-16:05	- Opening -	
16:05-16:20	Adapting to Climate Change Challenges in the Netherlands	H.P. Rijnsma
16:20-16:35	Environmental Hazard in Reclaimed Land in Japan from the View Point of Technology Transfer from Holland	Hajime Tanji
16:35-16:50	How Stakeholder Involvement Guides Integrated Management in Tidal Wetlands in Taiwan	Hsiao-Wen Wang, Pin-Han Kuo
16:50-17:05	Estimation of Temporal and Spatial Changes of Salinity and Required Time of Desalination according to Internal Development Scenarios in Saemangeon Bay, Korea	Jung-Hoon Choi, Choo-Sung Oh, Jeong-Ryong Jung
17:05-17:20	Blocking Drainage Channel on the Damsing Management of Peuland	Draft S. Wijetungekotte
17:20-17:30	- Discussion -	

Item 4: Organizing a Short Course on SDTA in 2015 at Taiwan

- During the Gwangju (2014) meeting, it was decided that the group would organize an International Short Course on SDTA at Taiwan after the 66th IEC meeting of ICID in October 2015. The title of the International Short Course is '**Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas.**'

Item 4: Organizing a Short Course on SDTA in 2015 at Taiwan

- The Short Course will emphasize on four topics: (a) Special characteristics of land and water management in tidal areas; (b) Impacts of climate change on land and water management in tidal area; (c) Risk assessment and adaptive management considering climate change; and (d) International experiences of adaptations in SDTA to climate change. The draft announcement for the short course is available at Annex 2.

Item 4: Organizing a Short Course on SDTA in 2015 at Taiwan

INTERNATIONAL SHORT COURSE ON RESILIENCE AND ADAPTATIONS TO CLIMATE CHANGE FOR SUSTAINABLE MANAGEMENT OF TIDAL AREAS

Scope

Tidal areas, with abundant ecosystems, are important interactive water-land environments. Due to the global climate change, tidal areas are threatened by rising sea levels, extreme flood and drought events, and so on. There is a pressing need to accelerate efforts for resilience and adaptation to climate change. Through learning processes and experience sharing, feasible strategies of sustainable management of tidal area resources can be derived.

The International Short Course is organized by IGE's Working Group on Sustainable Development of Tidal Areas (WGS-SDTA). The course is intended for resource managers, practitioners, researchers, and others who are familiar with the related issues in tidal area and wish to understand and apply the experiences to cope with climate change. Young professionals with at least five years of experience in the subject area are encouraged to participate. The course balances advance reading, lecture, fieldwork, and seminars. Participants will come away with a working knowledge based on international experiences and an understanding of the theory and tools for further applications.

Topics include

1. Special characteristics of land and water management in tidal areas
2. Impacts of climate change on land and water management in tidal areas
3. Risk assessment and adaptive management considering climate change
4. International experiences of adaptations to climate change

Venue: Taiwan

Date: After Montpellier IEC meeting

Participants: Less than 28 people

Principal instructors: Prof. Henk Ritzen (The Netherlands) and Prof. Hsiao-Wen Wang (Taiwan)

Contact co-ordinators: Prof. Ruzi-Chy Hsu (Chinese Taipei), Workshop Chair, E-mail: SDTA-TH@tncnso.edu.tw and Dr. Vijay K. Lalchandrar (IGD Central Office, New Delhi), Workshop Coordinator, E-mail: mlr@igd.org

Item 4: Organizing a Short Course on SDTA in 2015 at Taiwan

Accordingly, the members may discuss:

- **Date:** The short course is proposed to be held in **spring, 2016** due to the administrative procedures involved in securing grants and consideration of the climate.
- **Criteria for sponsoring participants:** In order to invite nominations for participation in prescribed format, the WG needs to develop the criteria for selection of participants. The number of participants is proposed to be less than 20 due to the limitation of grants.

Item 4: Organizing a Short Course on SDTA in 2015 at Taiwan

- **Instructors:** There will be 2-3 days of lectures and 2-3 days of field trip/technical tours and practical activities during the short course. The field trip/technical tours will be organized by Prof. Ruey-Chy Kao and Hsiao-Wen Wang (Taiwan) and lectures will be delivered by invited faculty/speakers.

Item 5: Publications of the Working Group

- At Gwangju (2014) meeting, the WG decided to publish a Special Issue of ICID Journal on SDTA in 2016. The special issue will contain select papers from the internal (2013), and international (2014, 2015) workshops.

Table 1 List of Papers presented during the Internal Workshop in 2013

No.	Names	Country	Title of the Papers
1.	Sang Hyun Park	Korea	Possibility of the Byeokgolje Dam as a Dike in the Tidal Area
2.	Bart Schultz	The Netherlands	Impacts of Man-Induced Changes in Land Use and Climate Change on the Sustainable Development of Coastal and Deltaic Areas
3.	Abu Saleh Khan, et al	Bangladesh	Redesigning Coastal Polders in Bangladesh considering Sea Level Rise and Climate Change
4.	Ir. Nur Hesham M. Ghazali et al	Malaysia	Impact of Sea Level Rise and Tsunami on Coastal Areas in Northwest Peninsular Malaysia
5.	Hsiao Wen Wang, Pin-Han Kuo	Taiwan	Opportunities for Enhancing Bird Habitat by Gate Operation at Budai Salt Pond Wetland in Coastal Taiwan
6.	Hajime Tanji, et al	Japan	Recovery of Tsunami-affected Tidal Areas in Miyagi Prefecture
7.	Henk Ritzen	The Netherlands	Collaborative Research to Improve the Water Management in the Rice Polders in Nickerie, Surinam
8.	Hung Kwai Chen	Taiwan	Integrated Flood Control and Land Restoration Planning for Severe Land Subsidence Area in Pingtung
9.	Budi Santoso Wignjosukarto	Indonesia	Flood Mitigation in the Development of Peat Land, Riau Indonesia

Item 5: Publications of the Working Group

Table 2 List of Papers presented during the International Workshop in 2014

No.	Names	Country	Title of the Papers
1.	Jae Song Jung	Korea	Flow Characteristics near Drainage Gates of the Saemangeum Tidal Dike
2.	Jin-Young Choi	Korea	Monitoring of ecological and morphological changes in the near-shore area of the Saemangeum sea dike
3.	Budi Santoso Wignjosukarto	Indonesia	Mini Polders, as an alternative of flood management in The Lower Bengawan Solo River
4.	Chung Feng Ding	Taiwan	Inundation and Land Subsidence Prediction in Yulin County Taiwan Considering Climate Change
5.	Dai-Lim Ji	Korea	Field Test for Planting Saemangeum Reclaimed Land
6.	Jonghwa Ham	Korea	Evaluation of watershed management practices under uncertainty for water quality conservation in reclamation area
7.	Hajime Tanji	Japan	How Japanese Government Can Turn Damage of Sea Level Rise to Decrease Flood Risk?

Table 3 List of Papers presented during the Internal Workshop in 2015

No.	Names	Country	Title of the Papers
1.	Henk Ritzen	The Netherlands	Adapting to Climate Change: Challenges in the Netherlands
2.	Hajime Tanji	Japan	Environmental Hazard in Reclaimed Land in Japan from the View Point of Technology Transfer from Holland
3.	Hsiao-Wen Wang, Pin-Han Kuo	Taiwan	How Stakeholder Involvement Guides Integrated Management in Tidal Wetlands in Taiwan
4.	Jung-Hoon Choi, Chan-Sung Oh, Jeong-Ryeol Jang	Korea	Estimation of Temporal and Spatial Changes of Salinity and Required Time of Desalination according to Internal Development Scenarios in Saemangeum Reservoir
5.	Budi Santoso Wignjosukarto	Indonesia	Blocking Drainage Channel on the Burning Management of Peatland

- Total : 21 papers
- Bangladesh (1) , Indonesia (3) , Japan (3) , Korea (6) , Malaysia (1) , The Netherlands (3) , Taiwan (4)

Item 5: Publications of the Working Group

- The Chairman and Vice-Chairman have established the ‘Review Committee’ for reviewing and selecting papers for the Special Issue. Guest Editors for the Special Issue will be appointed by the Chief Editor of the ICID Journal in due course of time.
- Ir. Henk P. Ritzema (The Netherlands) - Chair of the Review Committee
 Dr. Hajime Tanji (Japan)
 Dr. Hsiao-Wen Wang (Taiwan)
 Dr. Jeongryeol Jan (Korea)
 Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia)

Item 5: Publications of the Working Group

- Considering the need of US\$ 15,000 from M/s Wiley-Blackwell (UK), the publisher of ICID Journal, to publish a sponsored issue of the Journal, ICID Central Office requested National Committees for generous donations for this special Issue of the Journal. In response, the **Japanese** National Committee of ICID (JNC-ICID), **Korean** National Committee of ICID (KCID) and the **Chinese** National Committee of ICID (CNCID) have committed US\$ 5000 each for such an academic cause.

Item 6: Updating Multilingual Technical Dictionary (MTD)

- The 5th edition of the MTD includes the following Chapters

Chapters	
(1) General (statistics, units etc.);	(14) Construction materials;
(2) Hydrology;	(15) Construction techniques and equipment;
(3) River hydraulics;	(16) Automation in irrigation, drainage and flood control systems;
(4) Reclamation;	(17) Operation, maintenance and management;
(5) Head works;	(18) Soil and water conservation;
(6) Design of irrigation canals;	(19) Environmental impacts;
(7) Canal structures;	(20) Flood control;
(8) Project water management;	(21) Computer technology;
(9) Wells and drilling;	(22) Systems analysis;
(10) Pumping stations (lifting devices);	(23) Hydraulic research;
(11) Irrigation systems and distribution of irrigation waters;	(24) Project planning; and
(12) On-farm water management;	(25) Climate change.
(13) Design and construction of drainage systems;	

Item 6: Updating Multilingual Technical Dictionary (MTD)

- PCTA would require a feedback from each of the WGs as to how they plan to review / update the terms that fall within their respective scope of activities. WGs may discuss this issue and provide the required input to PCTA. To achieve this goal, it is proposed to undertake the concerned terms by the respective Working Group depending on their domain of expertise suggesting changes / modification and addition of new terms, contributing pictures, links and videos related to respective term.

Item 6: Updating Multilingual Technical Dictionary (MTD)

Accordingly, the members may discuss:

- Who would like to be the volunteer to complete the task?

Any other business?

~Thank you for your participation~