

<Attachment 3>

TC Activity Report

TC-1 Activity

Workshop on Hydro-environmental Impacts of Large Coastal Developments

: First ACECC-TC1 Workshop and Meeting
at Conference Hall, Myongji Bldg, Seoul, Korea, on 21-23 May 2003

Co-organized by :

Korean Society of Coastal and Ocean Engineers (KSCOE)

Korean Society of Civil Engineers (KSCE)

Japan Society of Civil Engineers, Coastal Engineering Committee (JSCE(CEC))

Sponsored by :

Korea Agricultural & Rural Infrastructure Corporation (KARICO)

Myongji University

Hyundai Engineering & Construction Co., Ltd.

Daewoo Engineering & Construction Co., Ltd.

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Announcement

Seas neighboring to China, Japan, Korea are highly characterized by significant intensity of tides. Yet large coastal developments have been performed and also under way in strong tidal environments. If these countries are even to achieve sustainable management of the marine resources of their coastal seas it is a fundamental requirement to be able to both understand and predict the hydro-environmental behavior of the system, starting from tide and tide-related environmental process. Time is now mature for coastal engineers, from these countries to exchange knowledge and information based on past experiences and up-to-date scientific findings for making furtherance in our scientific discipline. It is our pleasure to announce here that first ACECC-TC1 Workshop on Hydro-environmental Impacts from Large Coastal Developments will be held on 21-23 May 2003 in Seoul, Korea. Looking forward to seeing you in Seoul,

Sincerely yours,

Prof. Byung Ho Choi
Chairperson of co-organizing Committee

Department of Civil
and Environmental Engineering,
Sungkyunkwan University, Korea

Prof. Wataru Kioka
Chairperson of co-organizing Committee

Department of Architecture
and Civil Engineering,
Nagoya Institute of Technology, Japan

Ojectives:

It is an urgent task to fix the plans for keeping the marine environment appropriate with sustainable development for whole future human beings. In order to predict the changes in regional marine environment, it is crucial to estimate hydro-environmental impacts for large coastal developments. First ACECC-TC1 workshop on Hydro-environmental Impacts from Large Coastal Developments will provide a forum to review the status of research in this field. It is hoped that the workshop will also contribute to improve our understanding of spatial and temporal variation mechanism of regional environment in each of the Asian marginal seas towards its prediction with higher certainty.

- * Tidal dike closure operation: Hydrodynamics and practical experiences
- * Impact of tidal barriers on coastal environments
- * Hydro-environmental impacts from large coastal developments

Date and Venue :

The workshop will be held on 21-22 May 2003 at Conference Hall, Myongji Bldg, Seoul, Korea

Including ACECC-TC1 meeting.

One-day field trip on 23 May to the closure operation of Number 4 dike of Saemangeum Project is scheduled.

Official Language:

The official language of the workshop is English.

Call for papers:

Selected experts are invited to contribute papers in the workshop. Please submit a title of your presentation by 10 April 2003 to the chairperson by fax or e-mail.

Special Attention:

Full paper should be up to 20 pages (preferably but no limitation) including references and figures on A4 and be received by the organizers before 30 April, A

book of workshop will be distributed at the workshop. It is advisable to follow the APAC2003 format as attached.

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Travel to Seoul:

Please refer to timetable of flight to Incheon International Airport.

Important dates:

10 April, 2003	Last date for receipt of title of paper
20 April, 2003	Distribution of Workshop agenda
30 April, 2003	Last date for receipt of full papers for workshop proceedings

Organizing Committee

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Sungkyunkwan University)

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Workshop on Hydro-environmental Impacts of Large Coastal Developments

First ACECC_TCI Workshop on 21 - 22 May, 2003

Venue : Conference Hall, Myongji Bldg.

1st day (May 21)

08:30 - 09:00 Registration

09:00- 09:15 Welcoming Remarks (Prof. Byung Ho Choi)

09:15- 09:30 Opening address (Prof. Wataru Kioka)

Session chairs : Prof. Wataru Kioka (Nagoya Inst. Tech.) and Dr. Heung-Jae Lie (KORDI)

09:30-10:00 Yusaku Kyojuka: Numerical and experimental studies on water flow by opening the floodgates of Isahaya dyke

10:00-10:30 Daesu Eo and Jin-Sik Kim: Hydraulic studies and engineering application for Saemangeum project

10:30-11:00 Heung-Jae Lie and Seok Lee: Integrated preservation research program on the oceanic environments in the Saemangeum reclamation: Introduction

11:00-11:30 Byung Ho Choi and Jin Hee Yuk: Tidal perturbation due to a barrier at Isahaya Bay

11:30-12:00 Moon Seup Shin and Dinh Van Manh: Changes of tidal currents and residual flow after the construction of sea dike system in the Saemangeum tide land reclamation area

12:00 - 13:30 Lunch Time

13:30-14:00 Publication meeting

Session Chairs : Prof. Yusaku Kyojuka (Kyushu Univ.) and Prof. Chong Kun Pyun (Myongji Univ.)

14:00-14:30 Byung Ho Choi and Han Soo Lee: Preoperational simulation of dike closure for Saemangeum tidal barriers

14:30-15:00 Dong Hoon Yoo: Efficient and safe closure of sea dike

15:00-15:30 Coffee Break

Session Chairs : Dr. Kazumi Ueda (Land Improvement Association of Japan) and Dr. Dae Su Eo (KARICO)

15:30-16:00 Tae In Kim and Suk Woo Lee: Hydrodynamic changes due to large developments in the Keum River Estuary

16:00-16:30 Tae In Kim and Suk Woo Lee: Sedimentation processes induced by large developments in the Keum River Estuary

16:30-17:00 Sang Hyun Park: Sustainable development technology of tideland areas in Korea

17:00-17:30 Jong Wan Lim and Seo Ho Song: Introduction of Saemangeum environment-friendly research to create green land and clean lake

2nd day (May 22)

Session Chairs : Prof. Shin-ichi Aoki (Toyohashi Univ. Tech.) and Prof. Jung Lyul Lee (Sungkyunkwan Univ.)

09:00-09:30 Masahiro Tanaka, Yumi Shimbo and Boon Keng Lim: Habitat evaluation method for coastal wetland

09:30-10:00 Jung Lyul Lee: An analytical study on heavy siltation in the Keum River estuary after a dike construction

10:00-10:30 Shigeru Kato and Takao Yamashita: Coastal current system and its simulation model

10:30-11:00 Coffee Break

Session Chairs : Dr. Shigeru Kato (Kyoto Univ.) and Dr. Tae In Kim (KOSEC)

11:00-11:30 Kyeongok Kim and Takao Yamashita: Parallel computation of coupled atmosphere and ocean model - The case study of Typhoon 9918 in Yatsushiro Sea

11:30-12:00 Shin-ichi Aoki: Restoration strategy in Lakes Nakaumi and Shinji after suspension of large reclamation project

12:00-13:30 Lunch Time

Session Chair : Prof. Byung Ho Choi (Sungkyunkwan Univ.)

13:30-14:00 Chong Kun Pyun, Kyu Han Kim and Kyoko Hata: Environmental prediction of tidal flat using ecological modeling

14:00-14:30 Sang Ho Lee: Variability of currents observed in Saemangeum coastal region

14:30-15:00 Kazumi Ueda: Impoldering works (KANTAKU) in Japan

15:00-15:30 Coffee Break

Session Chairs : Dr. Masahiro Tanaka (Kajima Tech. Res. Inst.) and Dr. Koo Yong Park (Hyundai E&C)

15:30-16:00 Koo Yong Park and Chang Woo Kim: Study on Seosan reclamation method using VLCC

16:00-16:30 Byung Ho Choi, Jong Yoon Mun and Jin Seok Ko: Simulation of summertime suspended sediments in the Yellow Sea

16:30-17:00 Byung Ho Choi, Jong Yoon Mun and Jin Seok Ko: Wintertime suspended sediments simulation in the Yellow Sea

17:00-17:15 Closing Remarks (Prof. Shin-ichi Aoki)

