Program

Dec. 1, 2005

9:00 10:00 60 min Registration

10:00 10:15 15 min Opening Ceremony

10:15 10:45 30 min Keynote Speech 1

Chairman: Masaharu FUJITA, DPRI Kyoto University

Important issues on sediment-related disaster management in Indonesia

Djoko Legono

Gadjah Mada University

10:45 12:30 105 min Technical Session 1: Fluvial Disasters & Environment

Chairman: Yasunori MUTOH, DPRI Kyoto University

(1) An Experimental Study on Flow and Bed Evolution in a Curved Open Channel with a Series of Groynes
Yasunori MUTO* and Hajime NAKAGAWA
*DPRI, Kyoto University

(2) Flow & sediment transport around groins under live-bed scour condition
Hao ZHANG*, H. Nakagawa, Y. Muto and Y. Baba
*DPRI, Kyoto University

(3) An artificial neural network for predicting local scour depth due to horizontal jets
Adhy KURNIAWAN*
*Gadjah Mada University

(4) On sediment yield and transport in the Lesti River Basin, a tributary of the Brantas River, Indonesia
-Experiences from field observations and remotely sensed data -
Hajime NAKAGAWA*, Yoshifumi SATOFUKA, Yasunori MUTO, Satoru OISHI, Takahiro SAYAMA and Kaoru TAKARA
*DPRI, Kyoto University

(5) Sediment-Related Problems and Its Countermeasures in Progo River, Indonesia
Muhammad SULAIMAN*, Djoko LEGONO and Masaharu FUJITA
*DPRI, Kyoto University

(6) A Simulation Method for Quantitative and Qualitative Changes of Riverbed
Masaharu FUJITA*, Daizo TSUTSUMI and Muhammad SULAIMAN
*DPRI, Kyoto University

(7) Prediction Method for Water Temperature and Turbidity Behavior in a Reservoir by Three-dimensional Numerical Analysis
Nozomu YONEYAMA*
*DPRI, Kyoto University

12:30 13:40 70 min Lunch

13:40 15:00 80 min Technical Session 2 : Meteorology & Oceanography

Chairman: Taiich HAYASHI, DPRI Kyoto University

(8) Present Review and Future Scope of Meteoroloical Disasters in Mrtteorological Disasters in South Asia
Taiichi HAYASHI*, Toru TERAO and Fumie MURATA
*DPRI, Kyoto University

(9) Topographic rainfall in the South Asia
Takehiko SATOMURA* and Aya KATAOKA
*Graduate school of Science, Kyoto University

(10) The rainfall phenomena during the pre-monsoon period over the Indochina Peninsula
Masashi KIGUCHI* and Jun MATSUMOTO
*Kyoto University

(11) The Spatial and Temporal Distribution of Thermal Instability and Vertical Shear over South Asia
Yusuke YAMANE* and Taiichi HAYASHI
*Graduate school of Science, Kyoto University

(12) The Meso-scale Features of Pre- and Mature Monsoon Cloud Systems developed over Bangladesh
Toru TERAO*
Faculty of Informatics, Osaka Gakuin University

15:00 15:30 30 min Coffee Break

15:30 17:30 120 min Technical Session 3: Complex fluid dynamics

Chairman: Hideo SEKIGUCHI, DPRI Kyoto University

(13) Geophysical characterization of intertidal sedimentary environments: sand, mud and sand-mud layered flats
Y. WATABE and S. SASSA*
*Soil Mechanics and Geo-Environmental Division, Port and Airport Research Institute

(14) Experimental and Numerical Study on the Consolidation of Clayey Subsoil in Intertidal Zone
Masaki UEDA, Takahiro KUMAGAI*, Katsuya IKENO, Yoichi WATABE and Shinji SASSA
*Penta-Ocean Construction Co., Ltd.

(15) Beach groundwater responses to tidal and meteo-hydrological forcing
Ryoukei AZUMA, Kriyo SAMBODHO* and Hideo SEKIGUCHI
*DPRI, Kyoto University

(16) Fluidization and hindered settling of highly concentrated sand-water mixtures
Hideo SEKIGUCHI*, AMIRUDDIN and Kriyo SAMBODHO
*DPRI, Kyoto University

(17) Levee breaching and associated sedimentary features on adjacent paddy field
Ryoukei AZUMA*, Hideo SEKIGUCHI, AMIRUDDIN and Tetsu ONO
*DPRI, Kyoto University

(18) River-flood related lacustrine deposits offshore of a river mouth: from Lake Shinji offshore of the Hii River mouth
Yu SAITOH* and Fujio MASUDA
*Graduate School of Science, Kyoto University

(19) Tsunami sedimentation: an example from Indian Ocean Tsunami in southwestern Thailand
S. FUJINO*, H. NARUSE, K. FUJITA, A. SUPHAWAJRUKSAKUL and T. JARUPONGSAKUL
*Kyoto University

(20) Characteristics of Indian Ocean Tsunami deposit in a lagoonal environment, eastern Sri Lanka
Dan MATSUMOTO*, T. SHIMAMOTO, T. HIROSE, J. GUNATILAKE, A. WICKRAMASOORIYA, D. JEFFREY, S. YOUNG, C. S. RATHNAYAKE, J. RANASOORIYA, and M. MURAYAMA
*Kyoto University

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9:00 10:30 90 min Technical Session 4: Sedimentation Disasters

Chairman: Daizo TSUTSUMI, DPRI Kyoto University

(21) Geomorphometric analysis of two regions of central Nepal using GIS
Madhusudan SHRESTHA* and Toshitaka MIYAZAKI
*Department of Forestry, Faculty of Agriculture, Shinshu University

(22) Numerical simulation for collapse process of house due to landslide
Eiji HARADA* and Hitoshi GOTOH
*Department of civil engineering, Toyota College of technology

(23) Examination of landslide mechanism due to liquefaction
Eiji HARADA*, Takashi Hosoda and Hitoshi Gotoh
*Department of civil engineering, Toyota College of technology

(24) Mechanical & numerical model of unsaturated seepage & retention behavior for slope failure due to rainfall
Kohei ARAKI*, Ryosuke KITAMURA and Kazunari SAKO
*Dept. of Ocean Civil Engineering, Kagoshima University

(25) Numerical Model of water flow in weathered bedrock and its effect on slope stability
Daizo TSUTSUMI*, Masaharu Fujita and Roy C. Sidle
*DPRI, Kyoto University

(26) Simulation of Landslide-Induced Debris Flow in Minamata City, 2003
Hiroki TAKAOKA*, Haruyuki HASHIMOTO
*Department of Civil Engineering, Kyushu University

(27) Simulation of water and sediment flow in Hodaka River basin
Raj Hari SHARMA* and Hajime NAKAGAWA
*DPRI, Kyoto University

10:30 11:20 50 min Technical Session 5: Urban Flood Control

Chairman: Nozomu YONEYAMA, DPRI Kyoto University

(28) Inundation Analysis of Ground and Underground Spaces in Large Cities
Keiichi TODA*, Shinji AIHATA, Ryo OYAGI and Kazuya INOUE
*DPRI, Kyoto University

(29) Flood Risk Analysis on Storm Design Level Decision for Urban Flood Control
Masaru MORITA*
*Shibaura Institute of Technology

(30) Experimental study on urban flood and evacuation
Taisuke ISHIGAKI*, Keiichi TODA, Yasuyuki BABA, Hajime NAKAGAWA and Kazuya INOUE
*Faculty of Engineering, Kansai University

11:20 12:40 80 Technical Session 6: Coastal Disasters & Environment

Chairman: Yasuyuki BABA, DPRI Kyoto University

(31) 3D numerical simulation of tsunami runup onto a complex beach
Taro KAKINUMA*
*Port and Airport Research Institute

(32) Coastal vegetation for Tsunami protection – Case study from the Indian Ocean (Sri Lanka and Thailand)
Norio TANAKA*, Yasushi SASAKI, M.I.M. MOWJOOD and Samang HOMCHUEN
*Faculty of Engineering, Saitama University

(33) Assessment of the impacts of an artificially opened mouth on the sand spit of the Senegal River estuary and on dependent livelihoods
Ousmane FALL* and Moussa SANE
*Faculty of Urban Environmental Science, Tokyo Metropolitan University

(34) Environmental Impacts of Shore-parallel Breakwaters along Nagahama and Ohgata, District of Joetsu, Japan
Moussa SANE*, Toshio YAMAGISHI and Hiromitsu YAMAGISHI
*Niigata University

(35) Longshore Currents under Strom Conditions in Offshore Region
Yasuyuki BABA*, Takao YAMASHITA and Hajime NAKAGAWA
*DPRI, Kyoto University

12:40 13:40 60 min Lunch

13:40 14:10 30 min Keynote Speech 2

Chairman: Takao YAMASHITA, DPRI Kyoto University

Coastal Meteo-oceanographic Monitoring and Forcasting
Chia Chuen KAO
National Cheng Kung University

14:10 15:30 80 min Technical Session 7(1): Land-River-Coast System

Chairman: Takao YAMASHITA, DPRI Kyoto University

(36) Forestry Management in Indonesia
Sofyan WARSITO*
*Gadjah Mada University

(37) Indonesian Rivers, Their Characteristics and Problems
Totok SUPRIJO* and SUTJIPTO
*Meteorology and Geophysics Department, Institute of Technology, Bandung

(38) Problems in Coastal Structure In Indonesia
A. R. SYAMSUDIN*
*Research Institute for Water Resources and Development, Indonesia

(39) Settling velocity of sediments at high concentrations
Benoît CAMENEN*
*DPRI, Kyoto University

(40) Numerical simulation of cohesive sediment transport in estuary
Fitri RIANDINI* and Takao YAMASHITA
*Graduation School of Engineering, Kyoto University

(41) Autumn Flash Flood-Producing Storms in Sinai Peninsula, Egypt: Synoptic Scale Analysis
Haggag MOHAMMED* and Takao YAMASHITA
*DPRI, Kyoto University

15:30 15:50 20 min Coffee Break

15:50 17:20 90 min Technical Session 7(2): Land-River-Coast System

Chairman: Benoît CAMENEN, DPRI Kyoto University

(42) Effects of Kuroshio Warm Current SST on coastal wind and precipitation fields simulated by meso-scale meteorological model MM5

Kosei YAMAGUCHI* and Takao YAMASHITA

*Graduate School of Engineering, Kyoto University

(43) Reanalysis of storm surges and waves caused by the Cyclone in 1991 in Bay of Bengal: Effects of whitecap dissipation in a wave-surge coupled simulation

Kyeong Ok Kim* and Takao YAMASHITA

*Japan Atomic Energy Research Institute

(44) Hindcast of abnormal high waves in Japan/East Sea by MM5-WW3 coupled numerical model with depression bogussing

Lee Han Soo*, Kyeong Ok Kim and Takao YAMASHITA

*Graduate School of Engineeing, Kyoto University

(45) Numerical Model for Coastal Current, Sediment Transport and Topography Change

Shigeru KATO* and Takao YAMASHITA

*International Cooperation Center for Engineering Education Development, Toyohashi University of Technology

(46) Effect of the Kuroshio currents pass on the water exchange in stratified shallow bay in summer

Masato NIKI*, Takao YAMASHITA and Shigeatsu SERIZAWA

*Tokai University

(47) Eddy-covariance CO2 flux across Air-Sea interface over coastal ocean

Toru IWATA*, H. Dehare, N. Date, T. Yamashita & K. Uchiyama

*Graduate School of Environmental Science, Okayama University, Okayama, Japan

(48) Atmosphere-Land Surface-Ocean Coupled Model and Its Application to Water Circulation and Material Transport in River-Coast System

Takao YAMASHITA* and Takuro SAGA

*DPRI, Kyoto University

17:20 17:30 10 min Closing Ceremony