SCIENTIFIC THEMES AND SUB-THEMES

THEME A: Engineering and Management of Fresh-water Systems

Approach or point of view: interactions of fluid mechanics with other disciplines: ecology, management, geomorphology.

LOC Coordinator: Prof. Giovanni Seminara, University of Genoa, Italy.

A1.a Hydrodynamics of lakes and reservoirs (stratification, internal waves, wind forcing, flushing, sluicing, mixing processes)
A1.b Hydraulic and ecological interactions (wetlands, flood plains, fluvial biology, habitat, restoration and rehabilitation, vegetation and flow resistance, eutrophication, nutrient cycles, reservoir operations, flood protection, risk in coastal areas, fish passes)
A1.c Water resources and river basin management (fluvial basins and land planning, drainage and distribution systems, reservoir regulation, wastewater, arid zones, desertification, conjunctive use of water, integral use and reuse of water, transboundary river basin)
A1.d Floods (formation and propagation, control and mitigation, dam break, inundation modelling)
A2.a Hydro- and morphodynamics of rivers (bedforms, meandering, braiding, pools and riffles, bank erosion, equilibrium sections, vegetation effects on morphology)
A2.b Sediment transport and erosion processes (linear transport, surface erosion, mass movements, reservoir sedimentation, turbidity currents)
A2.c Mountain streams and debris flows (overaggradation, inundation control, disaster mitigation, floating debris)

THEME B: Data Acquisition and Processing For Scientific Knowledge and Public Awareness.

Approach or point of view: interaction of hydrology with other disciplines: atmospheric science, soil science, measurements, information theory, economy, law, sociology.

LOC Coordinator: Prof. Andrea Rinaldo, University of Padua, Italy.

B1.a Land-Water-Atmosphere Interactions (climate change, meteorological/hydrological modelling, precipitation, storms)
B1.b Surface hydrology (modelling, parameter estimation, slope
processes, runoff, infiltration, urban hydrology)

**B1.c** Sub-surface hydrology (groundwater flow, modelling, parameter estimation, scales, fractured and heterogeneous aquifers, aquifer pollution and restoration, groundwater - seawater interaction, groundwater management, subsidence and recharge)

**B2.a** Remote sensing techniques and applications (processing, evaluation, implementation of data, coupling with ground-based measurements)

**B2.b** Hydroinformatics (advanced numerical modelling, neural networks, fuzzy logic, evolutionary computing, data mining, data assimilation, data management, SPH)

**B2.d** Economic, legal, social and political aspects of water management (ecological, technological and sociological constraints, decision making, decision support, sustainability, political implications, water crisis, transboundary rivers)

**THEME C: Fluid Mechanics and Hydraulics**

**Approach or point of view:** basic fluid mechanics and hydraulics, hydraulic constructions, machinery and experimental devices.

**LOC Coordinator:** Prof. Antonio Cenedese, University of Rome “La Sapienza”, Italy.

**C1.a** Fundamentals of turbulence, mixing and dispersion processes (density currents, plumes, jets, wakes, multiphase flows, effects of vegetation)

**C1.b** Localized hydraulic phenomena (local scour, hydraulic jumps, curved channels)

**C1.c** Mathematical (numerical) modeling of complex flow fields (compound channels, steep flows, irregular topography)

**C2.a** Water distribution and drainage networks (irrigation, storm water, sewers, urban drainage)

**C2.b** Hydraulic Structures (dams, spillways capacities and rehabilitation, outfalls, fishways, spur dikes, groynes, weirs, intakes, dissipaters, gates, navigation locks)

**C2.c** Hydraulic machinery (pumps, turbines, propellers)

**THEME D: Maritime and Coastal Research and Engineering**

**Approach or point of view:** covering all aspects other than the structural topics of Cs2007: sea and coastal systems, interactions with inland water and other disciplines.

**LOC Coordinator:** Prof. Alberto Lamberti, University of Bologna, Italy. COPRI’s Coastal Structures co-chairman.

**D1.a** Hydrodynamics and morphodynamics of coastal systems (littoral, beaches, longshore and crossshore transport, beach nourishment).

**D1.b** Hydrodynamics and morphodynamics of estuarine systems (river mouth deltas, estuaries, lagoons, sea level rise).

**D2.b** Extreme and ordinary events in coastal management (hurricanes, tsunami, storms, generation, evolution/propagation, effects on the coast, risk analysis, coastal disaster, coastal flooding, integrated coastal-zone management, environmental and water-quality aspects).

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THEME A1.a

Hydrodynamics of lakes and reservoirs

3D NUMERICAL MODELING OF FLOW FIELD AND SEDIMENT TRANSPORT IN LABORATORY RESERVOIR FLUSHING PROCESS
Corresponding Author: Ali Khosronejad

NUMERICAL MODELLING OF DEPTH PROFILES OF CONTAMINATED SEDIMENTS IN A RIVER RESERVOIR BED
Corresponding Author: George K. Jacoub
Other Author: W. Hu, B. Westrich

LINEAR STABILITY ANALYSIS OF SPATIALLY ACCELERATING STRATIFIED SHEAR FLOWS
Corresponding Author: Maria Eletta Negretti
Other Author: S.A. Socolofsky, G.H. Jirka

COOLING WATER DISCHARGE INTO THE IMPOUNDMENT RESERVOIR VIENNA-FREUDENAU: EVALUATING DIFFUSER PERFORMANCE AND CORMIX-BASED MIXING SIMULATION
Corresponding Author: Bernhard Schmid

EVALUATION OF THE EFFECTS OF CAUSEWAY CONSTRUCTION ON URMIA LAKE FRESH WATER CIRCULATION
Corresponding Author: Saeed Moghimi
Other Author: M. Shafieefar, A. Khosronejad

VERTICAL VS. PLANIMETRIC CIRCULATIONS IN LAKES
Corresponding Author: Marco Toffolon

STUDY ON LONGITUDINAL DISPERSION COEFFICIENT IN TRAPEZOIDAL CROSS-SECTION OPEN CHANNELS
Corresponding Author: Yongcan Chen
Other Author: Z. Dejun

INVESTIGATION OF THE HYDRODYNAMICS IN A STRATIFIED LAKE
Corresponding Author: Anil Caliskan
Other Author: E. Sebnem

SIMILARITY SCALES SELECTION AND EXPERIMENTAL DESIGN OF LARGE-SCALE FLOATING SLUICE HYDRAULIC MODEL
Corresponding Author: Zong-fu Fu
Other Author: Y. Zhong-Min, L. Jia-Cai
AN EXPERIMENTAL STUDY OF A TWO-LAYER FLOW ABOVE A SUBMARINE SILL USING PIV
Corresponding Author: Jose Anta
Other Author: E. Pena, F. Sanchez-Tembleque, J. Puertas

AN EXPERIMENTAL STUDY ON FLOW CAPACITY IN LIAN-LU HYDROCOMPLEX
Corresponding Author: Wu Longhua
Other Author: Y. Jiangui, Y. Xiaoli

POLLUTANT TRANSPORT AND MIXING IN WATER WAVE FIELD
Corresponding Author: Dekui Yuan
Other Author: L. Binliang, T. Jianhua, S. Jian

PENETRATIVE CONVECTION IN STRATIFIED FLUIDS: VELOCITY MEASUREMENTS BY IMAGE ANALYSIS TECHNIQUES
Corresponding Author: Monica Moroni
Other Author: A. Cenedese, V. Dore

SIMULATION OF TURBULENT FREE SURFACE OBSTRUCTED FLOW WITHIN CHANNELS
Corresponding Author: Hussain Khalid
Other Author: J. Pu, S. Tait

GATE OPERATION FOR WATER QUALITY MANAGEMENT IN SEONAKDONG RIVER
Corresponding Author: Young Do Kim
Other Author: J. Hyun Kwon, J. Hyun Park, J. Hwang

THREE-DIMENSIONAL NUMERICAL ANALYSIS FOR PREDICTING THE BEHAVIOR OF WATER TEMPERATURE AND TURBIDITY IN A PUMPED STORAGE RESERVOIR
Corresponding Author: Nozomu Yoneyama
Other Author: M. Inoue, N. Tanaka

LAKE COMO WEST ARM EXCHANGE PROGRAM PILOT STUDY
Corresponding Author: Chris Dallimore
Other Author: J. Imberger, D. Copetti, G. Tartari

ANALYSIS OF WITHDRAWAL CONDITION AND EQUILIBRIUM DEPTH OF STRATIFIED FLOW BY 2-D VERTICAL NUMERICAL MODEL
Corresponding Author: Chien Jung Liu
Other Author: M.H. Shaohua, L. Ching-Biao

NUMERICAL SIMULATIONS TO PREDICT THE HYDRODYNAMICS AND THE RELATED MIXING PROCESSES IN WATER STORAGE TANKS
Corresponding Author: Volker Weitbrecht
Other Author: G.S. Palau, T. Stosser, T. Bleninger, B. Hofmann, M. Maier, K. Roth

BEST PRACTISE FLUSHING STRATEGY AT THE UPPER RIVER MUR
Corresponding Author: Helmut Knoblauch
Other Author: H. Badura, J. Schneider

THE EFFECTS OF A TIME-VARYING SOURCE UPON THE MOTION OF A CONTINUOUS SALINE UNDERFLOW
Corresponding Author: Rocio Luz Fernandez
Other Author: J. Imberger

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# THEME A1.b

## Hydraulic and ecological interactions

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Corresponding Author: Ruihua Shi

ASSESSMENT MODEL FOR RIVERBANK ECOLOGICAL PROTECTION WORK OF PLAIN RIVERS
Corresponding Author: Shiguo Xu

RESTORATION OF DREDGED FOREST STREAMS: FROM A MONOTONOUS TOWARD A HETEROGENEOUS STATE?
Corresponding Author: Ari Huusko
Other Author: P. Korhonen, T. Yrjana

INTEGRATING GIS AND MATHEMATICAL MODELING
Corresponding Author: Ioana Popescu
Other Author: A. Azab

ARTIFICIAL STEP-POOL SYSTEM FOR ECOLOGICAL RESTORATION OF A DEBRIS-FLOW RAVINE
Corresponding Author: Guo-an Yu
Other Author: W. Zhao-yin, D. Xuehua, Z. Kang

A STUDY ON MULTIPLICATION OF PHYTOPLANKTON UNDER OPERATION OF NAGARA RIVERMOUTH BARRAGE
Corresponding Author: Takeshi Takemura
Other Author: J. Maruyama, M. Nakai, M. Arita

SAND BAR LANDSCAPE AND ROLE OF VEGATATION AND SUBSURFACE FLOW ON ECOSYSTEM SERVICE
Corresponding Author: Tetsuro Tsujimoto
Other Author: T. Katakai, T. Sumi

ANALYSIS OF THE RE-OXIGENATION PROCESS IN WATER STREAMS
Corresponding Author: Paolo Veltri
Other Author: A. Fiorini Morosini, G. Maradei, B.M. Verbeni

EVALUATING FUNCTIONALITY AND SUSTAINABILITY OF RIVER WIDENINGS AT THE KAMP RIVER /AUSTRIA CONCERNING TO FLOOD PROTECTION AND AQUATIC ECOLOGY INCLUDING A NUMERICAL SENSITIVE TEST
Corresponding Author: Christoph Hauer
Other Author: B. Schober, H. Habersack

SEASONAL CHANGES OF FEEDING BEHAVIOR OF AYU, PLECOGLOSSUS ALTIVELIS ALTIVELIS
Corresponding Author: Takayuki Nagaya
Other Author: K. Onitsuka, Y. Shiraishi, M. Higashino, T. Takami, S. Matoba, J. Akiyama, H. Ozeki, Y. Akaki

EFFECT OF THE VERTICAL STRUCTURE OF A POROUS BED ON HYPORHEIC EXCHANGE
Corresponding Author: Mattia Zaramella
Other Author: A. Marion, A. Packman, A. Bottacin

RELATIONSHIPS BETWEEN WATER QUALITY, LAND USE AND STREAM INVERTEBRATES COMMUNITIES IN KOBE
Corresponding Author: Gozo Tsujimoto
Other Author: T. Kakinoki, M. Tamai

EFFECTIVENESS OF INSTALLED LARGE WOODY DEBRIS FOR PROVIDING HYDRAULIC DIVERSITY
Corresponding Author: Mark C. Stone
Other Author: M.E. Barber

COMBINING FIELD MEASUREMENTS AND LABORATORY EXPERIMENTS IN RIPARIAN REHABILITATION STUDIES
Corresponding Author: Sam Gorrick
MATHEMATICAL MODELLING OF CONTAMINANT PROPAGATION IN NATURAL AND ARTIFICIAL FREE SURFACE NETWORKS
Corresponding Author: Carmela Mucherino
Other Author: A. Palumbo, D. Pianese

ECOHYDROLOGICAL INTERACTIONS BETWEEN SUBSURFACE FLOW AND VEGETATION IN TIDAL ENVIRONMENTS
Corresponding Author: Marco Marani
Other Author: O. Tosatto, A. Comerlati, M. Putti

PATZCUARO LAKE, A SPRING MADE WATER BODY
Corresponding Author: Luis Emilio Rendon
Other Author: X. Li, M. Lara

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THEME A1.c

Water resources and river basin management

MAXIMIZING RESERVOIR YIELD IN AN ARID REGION
Corresponding Author: David Stephenson

STUDY ON THE BIODEGRADATION RATE IN RIVERS
Corresponding Author: Lin Luo
Other Author: M.J. Wang

SWIMER - SUSTAINABLE WATER INTEGRATED MANAGEMENT OF THE EAST ROUTE- RESULTS OF THE DIVERSION IMPACTS ON THE WATER RESOURCES
Corresponding Author: Julien Lecollinet
Other Author: Y.J.Jun, J.Yangwen, C.Niu, H.Gan, N. Moschini, A.Pretner, M. Gonella, H. Shen, Y. Li

RISK ASSESSMENT OF OPTIMAL RESERVOIR OPERATING POLICIES FOUND BY MONTE CARLO OPTIMIZATION AND ARTIFICIAL INTELLIGENCE
Corresponding Author: Camilo Alsyon Simoes Farias
Other Author: Suzuki Koichi, Kadota Akihiro, C.B. Alcigeimes

INVESTIGATION OF AERATED SIPHON
Corresponding Author: Detlef Aigner
Other Author: H.B. Horlacher

ANALYSIS OF ARTIFICIAL INFLUENCE FACTORS ON WATER CYCLE IN TAIZI RIVER BASIN
Corresponding Author: Wensheng Li
Other Author: X. Shiguo

FUZZY OPTIMIZATION MODEL FOR ALLOCATING ALLOWABLE DISCHARGED T-N LOAD TO POINT AND NONPOINT SOURCES
Corresponding Author: Shigeya Maeda
Other Author: T. Kawachi

SUSTAINABLE WATER RESOURCES PLANNING FOR INTEGRATED WATERSHED MANAGEMENT IN AN URBAN STREAM
Corresponding Author: Eun-Sung Chung
Other Author: L. Kil Seong, Y. Chin Chae, K. Ki Seo

THE DYNAMIC BALANCE IMPUTATION OF SYNERGETIC WATER POLLUTION CONTROL
Corresponding Author: Ruidong An
OPTIMIZING ECO-ECONOMIC STRUCTURE IN THE NORTHWEST GULLY LOESS PLATEAU OF CHINA
Corresponding Author: Zhou Zhenmin
Other Author: W. Tiehu, W. Liyan

INFLUENCE OF WATER RESOURCES DEVELOPMENT AND UTILIZATION ON ECO-ENVIRONMENT OF THE DOWNSTREAM OF YELLOW RIVER
Corresponding Author: Zhou Zhenmin

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Corresponding Author: Zhou Zhenmin

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Corresponding Author: X Gong
Other Author: J. Minfei, C. Chunli

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Corresponding Author: Nikola Nikolov

DESalINATION: A SOLUTION TO WATER SHORTAGE OR NOT
Corresponding Author: Yurdagul Kumcu
Other Author: B. Cinar

CONTRASTING APPROACHES IN SEDIMENT ManagEMENTS ALONG RIVERS IN PIEMONTE (ITALY)
Corresponding Author: Luca Franzi
Other Author: G. Bianco

STRATEGIC PLANNING OPTIMIZATION OF 'NAPOLI EST' WATER DISTRIBUTION SYSTEM
Corresponding Author: Maurizio Giugni
Other Author: N. Fontana, D. Romanelli, D. Portolano

INTEGRATED ASSESSMENT OF WATER QUANTITY AND QUALITY IN THE YELLOW RIVER BASIN
Corresponding Author: Yangwen Jia
Other Author: N. Cunwen, W. Hao

METHODOLOGY OF RIVER POLLUTION ASSESSMENT AND PRELIMINARY RESULTS
Corresponding Author: Yannopoulos C. Panayotis
Other Author: D.I. Manariotis, I.A. Ziogas, V. K. Kaleris

PREDICTION OF T-N RUNOFF LOADS FROM DIFFUSE POLLUTION UTILIZING POLLUTANTS RATING CURVE
Corresponding Author: Masato Noguchi
Other Author: N. Wataru, S. Suzuki, Y. Suemitsu, T. Ohta, Y. Itoh, M. Nishikawa

USE OF MATRIX ANALYSIS AND GIS FOR RIVER CORRIDORS IDENTIFICATION: THE CASE OF THE TAGLIAMENTO RIVER
Corresponding Author: Francesco Baruffi
Other Author: M. Bisaglia, M. Ferri, R. Ottoboni, N. Surian

MATHEMATICAL SIMULATION OF CONTAMINANT TRANSPORT IN WATER DISTRIBUTION SYSTEM
Corresponding Author: Domenico Pianese
Other Author: C. Musella, C. Palma

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Corresponding Author: Vincenzo Bixio
Other Author: G.M. Carrer
RAINFALL RUNOFF FORECASTING SYSTEM FOR BASIN WATER RESOURCES MANAGEMENT IN KOREA
Corresponding Author: Hwan Ko Ick
Other Author: M. Ha Hwang, W. Jeong

FLOW CHARACTERISTICS IN THE STREAM BY INSTALLING
Corresponding Author: Gye Woon Choi
Other Author: P. Sang Woo, K. Young Kyu, H. Man Shin

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THEME A1.d

Floods

SIMULATION OF DAM-BREAK FLOW USING A DEPTH-AVERAGED 2-D MODEL
Corresponding Author: Wu Weiming
Other Author: S.S.Y. Wang

DIKE BREAK PREVENTION AS THE PROCESS OF FLOODING PROTECTION
Corresponding Author: Zuzana Boukalova
Other Author: B. Vojtech

APPLICATION OF STORAGE FUNCTION METHOD WITH SCS ABSTRACTION METHOD
Corresponding Author: Yoon Kanghoon
Other Author: K. Taegyun

CREATIVE FLOOD PROTECTION DESIGNS IN AN URBAN ENVIRONMENT
Corresponding Author: Bianca Stalenberg
Other Author: H. Vrijling

THE FLOOD DISASTER CAUSED BY T0514 AND MEASURES TO MINIMIZE FUTURE DISASTERS IN MIYAZAKI, JAPAN
Corresponding Author: Satoru Sugio
Other Author: K. Murakami

ST.PETERSBURG FLOOD PROTECTION BARRIER: DESIGN AND ECOLOGICAL FEATURES
Corresponding Author: Rosa Mikhailenko
Other Author: I. Yesin

ON RIVER-BED VARIATION MECHANISM IN STEEP BRIDED CHANNELS AND A METHOD TO CALCULATE INUNDATION DISCHARGE HYDROGRAPH DUE TO DIKE BREACH
Corresponding Author: Shoji Fukuoka
Other Author: A. Tomonori

SIMULATION OF DAM-BREAK WAVES ON DRY BED BY LAGRANGIAN BLOCK METHOD
Corresponding Author: Vincent H. Chu
Other Author: C. Pinilla, L. Wai Tan

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Corresponding Author: Andre Paquier
MODELING BREACH GROWTH IN CLAY-DIKES
Corresponding Author: Yonghui Zhu
Other Author: P. Visser, H. Vrijling

A NEW INDEX ABOUT DROUGHT AND FLOOD
Corresponding Author: Yanshu Rong
Other Author: J. Yu, Q. Tu

TWO-DIMENSIONAL MATHEMATICAL MODELING OF FLOODING OVER ERODIBLE SEDIMENT BED
Corresponding Author: Zhixian Cao
Other Author: Y. Zhiyuan, L. Xin, C. Tao

PHYSICAL AND NUMERICAL MODELING OF A RIVER CONFLUENCE RESHAPING
Corresponding Author: Maria Giovanna Tanda
Other Author: M. D'Oria

RESERVOIR FLOOD CONTROL CAPACITY AND FLOOD ROUTING IMPACTS ON DOWNSTREAM FLOOD HAZARD REDUCTION, CASE STUDY: GORGANROOD RIVER & GOLESTAN DAM IN IRAN
Corresponding Author: Ali M. Pourhasan
Other Author: M.R.M. Tabatabai, M.R. Kavianpour, B. Bozorgy

EXPERIMENTAL AND NUMERICAL STUDY OF THE BREACHING OF AN EMBANKMENT DAM
Corresponding Author: Benjamin Dewals
Other Author: P. Archambeau, S. Erpicum, M. Pirotton

ANALYSIS AND APPLICATION OF TWO COMPLEMENTARY NUMERICAL MODELS FOR PREDICTING FLOOD WAVES GENERATED BY FAILURES OR DYSFUNCTIONS OCCURRING ON A COMPLEX OF DAMS
Corresponding Author: Benjamin J. Dewals
Other Author: S. Erpicum, P. Archambeau, S. Detrembleur, M. Pirotton

LINEAR APPROXIMATION OF OPEN-CHANNEL FLOW ROUTING WITH BACKWATER EFFECT
Corresponding Author: Simon Munier
Other Author: X. Litrico, G. Belaud

FLOOD RISK ASSESSMENT USING ADJOINT SENSITIVITY ANALYSIS
Corresponding Author: Hossam Elhanafy
Other Author: G.J.M. Copeland

EXTREME FLOODS AND INTEGRATED FLOOD MANAGEMENT
Corresponding Author: Helmut Michael Habersack
Other Author: J. Burgel, H. Stieffelmeyer, G. Krapesch

THE SHIFT CHARACTERISTICS OF THE RAINFALL IN SOUTH KOREA
Corresponding Author: Won Kim
Other Author: K. Chiyoung, O. Jeseung

SPEED OF LONG WAVE IN CHANNEL WITH TRIANGULAR CROSS-SECTION
Corresponding Author: Sergei Sokolov

TWO-STAGE MODEL OF MOUNTAIN RESERVOIR FLOOD ROUTING
Corresponding Author: Guang Li Xu
Other Author: B. De Wang

OPTIMAL DESIGN OF EVACUATION ROUTE AUGMENTATION AGAINST FLOOD DISASTERS - AN OPTIMIZATION ALGORITHM FOR A DESIGN PROBLEM WITH HIGH-LOAD 2D SIMULATION -
Corresponding Author: Tomoharu Hori
Other Author: M. Shiiba

EMPIRICAL FORMULA FOR PROPAGATION DISTANCE OF FLOOD WAVE-FRONT IN FLAT INUNDATION AREA WITHOUT STRUCTURE DUE TO LEVEE BREACH
FORESTS AND AUXILIARY LEVEES FOR FLOOD DAMAGE PROTECTION IN THE MIDSTREAM OF THE KASE RIVER
Corresponding Author: Koichiro Ohgushi
Other Author: K. Ikeda, H. Araki

SPATIAL PATTERN AND PREDICTING FACTOR OF FLOOD AND DROUGHT YEAR OF NORTH CHINA
Corresponding Author: Yanshu Rong
Other Author: Y. Jinhua

EXPERIMENTAL STUDY ON INFLUENCE OF LEVEE BREACH DEPTH ON FLOOD WAVE PROPAGATION IN INUNDATION AREA
Corresponding Author: Yoon Kwang Seok

A SIMPLE METHODOLOGY FOR THE DAM-BREAK WAVE EVALUATION
Corresponding Author: Paolo Mignosa
Other Author: F. Aureli, A. Maranzoni, C. Ziveri

1-D MORPHODYNAMIC SCHEME FOR NUMERICAL MODELING OF SIDE WEIR FLOW
Corresponding Author: Giulio Bechi
Other Author: M. Catella, E. Paris

APPLICATION OF THE SYNTHETIC HYDROGRAPH METHOD TO SOME CASE STUDIES
Corresponding Author: Massimo Tomirotti
Other Author: U. Majone, P. Mignosa

IMPORTANCE OF INFORMATION DISSEMINATION FOR FLOODS PREVENTION AND/OR MITIGATION
Corresponding Author: Seiji Suzuki
Other Author: N. Masato, E. Shinya, Y. Kitajima

NUMERICAL MODELLING OF LANDSLIDE-GENERATED WAVES
Corresponding Author: Hsu Chiang-An

RIVER BRENTA DEFENCE BY CONTROLLED FLOODING
Corresponding Author: Andrea Braidot

RIVER BRENTA DEFENCE BY CONTROLLED FLOODING
Corresponding Author: Michele Ferri

A SIMPLIFIED APPROACH FOR FLOOD ATTENUATION RESERVOIR DESIGN
Corresponding Author: Carmine Covelli
Other Author: L. Cozzolino, D. Pianese

A COMPARISON BETWEEN A 1D- AND A 2D-NUMERICAL MODELLING OF A LOCAL RIVER WIDENING
Corresponding Author: Roland Faeh
# THEME A2.a

**Hydro and morphodynamics of rivers**

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Corresponding Author: Hao Zhang
Other Author: H. Nakagawa, Y. Muto, Y. Muramoto

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Corresponding Author: Abderrezzak Kamal El Kadi
Other Author: A. Paquier, J. Magali

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Corresponding Author: Athanassios Dimas
Other Author: E. Balaras, D. Grigoriadis

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Corresponding Author: Eddy J. Langendoen
Other Author: N. Pollen, A. Simon

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Other Author: K. Blanckaert, A.J. Schleiss

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Corresponding Author: Luca Zanoni
Other Author: W. Bertoldi, R. Socin, M. Tubino, F. Baruffi

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Corresponding Author: Ana Maria Ferreira da Silva
Other Author: A.D. Binns

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Corresponding Author: Islam G.M. Tarekul
Other Author: Y. Kawahara, N. Tamai

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Corresponding Author: Jeong Sangman
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Corresponding Author: Mohamed Eizel-Din
Other Author: M.D. Bui, R. Feurich, P. Rutschmann

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Corresponding Author: Nicola Recchia
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Other Author: A. Roy

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Corresponding Author: Donatella Termini
Other Author: V. Sammartano

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Other Author: D. Termini

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Other Author: S. Yazdi

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Corresponding Author: Diego Caamano
Other Author: P. Goodwin

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Other Author: M. Rinaldi, S. Darby

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Other Author: F. Moatar, S. Rodrigues

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Corresponding Author: Ismail Zulhilmi
Other Author: K. Shiono

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Corresponding Author: Michele Bolla Pittaluga
Other Author: G. Nobile, G. Seminara

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Corresponding Author: Yee Meng Chiew  
Other Author: X.X. Liu

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Corresponding Author: S. Govindaraju Rao  
Other Author: E. Dogan, S. Tripathi, D.A. Lyn

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Other Author: J. Gracia

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Other Author: S.Y. Saeed-reza

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Corresponding Author: Joao Faisca Pereira  
Other Author: J.M. Silva; M. Forrest Holly

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Corresponding Author: Joe Harrington  
Other Author: K. Motherway, J. Clancy

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Other Author: D. Pigozzi, M. Pontin

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Corresponding Author: Matthieu Dufresne  
Other Author: J. Vazquez, A. Terfous, A. Ghenaïm, J.B. Poulet

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Corresponding Author: Fabian Rivera-Trejo  
Other Author: G. Soto-Cortes, J. Barajas-Ferandez, E. Carrizosa-Elizondo, I. Gomez-Esquível

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Corresponding Author: Vittorio Di Federico  
Other Author: S. Cintoli, R. Ugarelli

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Corresponding Author: E. P. Rao  
Other Author: M. Gopal Naik

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Corresponding Author: Syam Sidik  
Other Author: I. Hisae, A. Shin-Ichi

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Corresponding Author: Renata Della Morte  
Other Author: A. Carravetta

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Corresponding Author: Andrea Marion  
Other Author: A. Bottacin Busolin, S.J. Tait, M. Tregnaghi
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Corresponding Author: Kana Nakatani
Other Author: S. Yoshifumi, M. Takahisa

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Corresponding Author: J. C. Chen

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Other Author: K. Miyamoto, S. Egashira, K.R. Sharma

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Corresponding Author: Roger Bettess
Other Author: C. Lauchlan

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Corresponding Author: Michele Larcher
Other Author: A. Armanini, L. Fraccarollo, M. Larcher

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Corresponding Author: Arai Muneyuki
Other Author: H. Wataru
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Land-Water-Atmosphere interactions

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Corresponding Author: Tae-Woong Kim
Other Author: A. Hosung, A. Jae-Hyun, W. Sung-Wook, B. Sung-Ho, K. Moonil

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Corresponding Author: Hector R. Bravo
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Corresponding Author: Il Won Jung
Other Author: B. Deg Hyo, J. Chang Sam

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Corresponding Author: Luigi Cavaleri
Other Author: S. Carniel, C. Ferrarin, M. Sclavo, G. Umgiesser

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Other Author: S. Kazama, M. Sawamoto

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Other Author: R.L. Nascimento Joao

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Corresponding Author: Gwangseob Kim
Other Author: H. Kun-Yeun, C. Hyuk-Joon, L. Jong Tae

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Corresponding Author: Kang Boosik

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Corresponding Author: Gianluca Botter
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Corresponding Author: Lorenzo Campo
Other Author: F. Castelli, D. Entekhabi, F. Caparrini

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Corresponding Author: Gyorgy Fonyo
Other Author: L. Koncsos

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Corresponding Author: Marco Marani
Other Author: S. Zanetti

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Surface hydrology

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Corresponding Author: Rao S. Govindaraju
Other Author: N. Nahar, C. Corradini, R. Morbidelli

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Corresponding Author: Lampros Vasiliades
Other Author: A. Loukas

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Corresponding Author: Graham Jenkins

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Corresponding Author: James Ball
Other Author: K. Sook Choi

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Corresponding Author: Maeng Seung Jin
Other Author: L. Sang Jin, H. Man Ha, L. Bae Sung, K. Ick Hwan

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Corresponding Author: Ahmad Alkaeed - Othoman
Other Author: T. Atsushi, J. Kenji, H. Yoshinari

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Corresponding Author: Cinzia Mazzetti
Other Author: E. Todini

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Corresponding Author: Randall Charbeneau
Other Author: J. Jeong, E. Reeder, W.S. Chan

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Corresponding Author: Alejandro Dussaillant
Other Author: J. Aravena
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Corresponding Author: Jose Anta
Other Author: M. Beneyto, J. Cagiao, J. Temprano, J. Suarez, J. Puertas

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Corresponding Author: Hungsoo Kim
Other Author: K. Bum Jun, K. Min Soo, K. Jae Won, L. Keon Haeng

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Corresponding Author: Ilaria Gnecco
Other Author: L.G. Lanza, J.J. Sansalone

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Corresponding Author: Kyung Soo Jun
Other Author: Y. Myoung Kwan, K. Jin Soo

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Corresponding Author: Ludovico Nicotina
Other Author: A. Rinaldo, M. Marani

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Other Author: A. Petersen-Overleir

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**NUMERICAL MODELLING OF DENSITY-DRIVEN FLOW AND TRANSPORT PROCESSES IN A COASTAL AQUIFER - SUBMARINE GROUNDWATER DISCHARGE FROM SEEPS**
Corresponding Author: Mirko Schankat
Other Author: R. Hinkelmann, M. Schlueter

**SPATIAL DYNAMICS OF AQUIFER RECHARGE IN THE BASIN OF MEXICO**
Corresponding Author: Jaime Carrera-Hernandez
Other Author: S. Gaskin

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Corresponding Author: Hund-Der Yeh
Other Author: Mo-Hsuing Chuang

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Corresponding Author: Kozue Yuge
Other Author: M. Anan, Y. Nakano

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Corresponding Author: Jinchang Sheng
Other Author: J. Liu, W.C. Zhu, D. Elsworth

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Corresponding Author: Park Namsik
Other Author: L. Cui

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Corresponding Author: Ming-Chung Tsao
Other Author: H. Shao-Hua, L. Chien-Jung

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Corresponding Author: Jitae Kim
Other Author: J. Ahn, W. Cho

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Corresponding Author: Sang Il Lee
Other Author: H. Se Young, L. Sang Sin, Y. Sang Yeon, C. Jae Yeol
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Corresponding Author: Matteo Nicolini
Other Author: V. Fiorotto, E. Caroni

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Corresponding Author: Armine Simonyan
Other Author: A. Movsisyan

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Corresponding Author: Ester Garcia-Solsona
Other Author: J. Rapaglia, J. Garcia-Orellana, L. Zaggia, M. Pere, A. Beck, M. Ferla

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Corresponding Author: Giulia Passadore
Other Author: M. Monego, M. Sartori, M. Putti, L. Altissimo, A. Sottani, A. Rinaldo

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Corresponding Author: Vassilios Kaleris

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Corresponding Author: Pietro Teatini
Other Author: M. Ferronato, G. Gambolati, M. Putti, G. Brancolini, P. Campostrini

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Corresponding Author: Mario Putti
Other Author: M. Altissimo, M. Marani, A. Rinaldo

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Corresponding Author: Byung Sik Kim
Other Author: H. Jun Bum, K. Hung Soo, Y. Seok Young, S. Byung Ha

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Corresponding Author: Nina Kilham

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Other Author: K. Sooyoung, J. Heo, K. SungHoon

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Corresponding Author: Ismail Albayrak
Other Author: U. Lemmin

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Corresponding Author: Enrica Belluco
Other Author: S. Vardy, R. Aspden, D. Paterson, M. Marani

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Other Author: V. Volpe, M. Marani, C. Badetti, R. Rosselli, G. Ferrari

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Other Author: F. Coren, P. Sterzai, P. Paganini, R. Vidmar, N. Creati, I. Marson
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Corresponding Author: Amir Ahmad Dehghani
Other Author: K. SUZUKI, F. Hashemi, S.A. Salamatian

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Corresponding Author: Steve Wallis
Other Author: A. Piotrowski, P. Rowinski, J. Napierkowski

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Corresponding Author: Guanghui Gao
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Corresponding Author: Mohammad Bakhtiar
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Corresponding Author: Giuseppe Del Giudice
Other Author: L. Farina

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Corresponding Author: Rajesh Gupta
Other Author: M.S. Kadu, P.R. Bhave

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Corresponding Author: Elena Carla Carcano
Other Author: E. Carcano, P. Bartolini, M. Muselli, B. Croke

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Other Author: M.S. Jamshid
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Other Author: C. Turan, P. Carrica, L. Weber

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Corresponding Author: W. H. Onyx Wai
Other Author: C.H. Wang, Y.S. Li

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Other Author: B.S. Minsker, A. Eyal

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Other Author: H. Jun-Haeng, B. Deg-Hyo, J. Younghun

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Corresponding Author: Mohammad Reza Hadian
Other Author: A.R. Zarrati

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Corresponding Author: Shun-Ichiro Hayashi
Other Author: T. Ohmoto, I. Honda, R. Hirakawa

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Corresponding Author: Il Won Seo
Other Author: L. Myung Eun

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Corresponding Author: Mohammad Reza Kavianpour
Other Author: M.R. Najafi, Z. Kavianpour

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Corresponding Author: Matthew Hipsey
Other Author: J. Imberger, A. Paparini, J. Antenucci, R. Soncini-Sessa, V. Romano-Spica

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Corresponding Author: Abhishek Singh
Other Author: B.S. Minsker, A. Valocchi

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Corresponding Author: Roberto Greco
Other Author: A. Cavallo
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Economic, legal, social and political aspects of water management

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Corresponding Author: Gregory Shahane De Costa
Other Author: B. Datta, M. Porter, T. Kojiri, T. Hamaguchi

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Corresponding Author: Amin Elshorbagy

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Corresponding Author: Tomoya Kawaguchi
Other Author: W. Morihiro, K. Toshiharu

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Corresponding Author: Fangjie Cong
Other Author: Z. Huicheng

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Corresponding Author: Yabe Hiroki

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Corresponding Author: Ramon Gutierrez-Serret
Other Author: J.M. Grassa, J.I. Grau, J. Poncela, I. Rodriguez

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Corresponding Author: Hsin-Ya Ho
Other Author: M.C. Chiou, W.C. Lee, C.L. Yen

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Corresponding Author: Maximo Peviani
Other Author: J. Alterach, O. Brasi, S. Maran
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Corresponding Author: Armine Simonyan
Other Author: H. Tokmajyan, A. Abovyan

SUSTAINABLE WATER MANAGEMENT - HARMONIZING HYDROPOWER PROJECTS WITH THE ENVIRONMENT, NATURAL RESOURCES AND SOCIETY
Corresponding Author: Kari Dalen

ESTIMATION OF URBAN FLOOD DAMAGE IN KOREA
Corresponding Author: Hungsoo Kim
Other Author: L. Keonhaeng, K. Minsoo

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THEME C1.a

Fundamentals of turbulence, mixing and dispersion processes

EXPERIMENTS ON MIXING IN A DENSITY CURRENT DOWN A SLOPE
Corresponding Author: Claudia Adduce
Other Author: C. Cenedese

A SIMPLE MATHEMATICAL MODEL FOR MEAN FLOW CHARACTERISTICS IN CONFINED JETS
Corresponding Author: Hooman Hajikandi
Other Author: A. Farshid

3D GRAVITY CURRENTS ON SMOOTH AND ROUGH BED
Corresponding Author: Michele La Rocca
Other Author: A. Bateman Pinzon, M. Morganti, M. Sbarigia

DE-AERATION BY STRUCTURAL MEANS IN PRESSURIZED FLOW
Corresponding Author: Martin Wickenhaeuser
Other Author: H.E. Minor

EFFECT OF TURBULENCE IN WATER CHANNEL MEASUREMENTS
Corresponding Author: Claudia Pollak-Reibenwein
Other Author: A. Joeppen

CALCULATION OF DISPERSION COEFFICIENTS BY ROUTING PROCEDURE IN TWO-DIMENSIONAL RIVER MIXING
Corresponding Author: Kyong Oh Baek
Other Author: I.W. Seo

HEIGHT OF RISE OF INCLINED AND VERTICAL NEGATIVELY BUOYANT JETS
Corresponding Author: George Christodoulou
Other Author: I. Papakonstantis, M. Kampourelli

DEPOSITION FROM PARTICLE-LADEN, TURBULENT, ROUND BUOYANT JETS
Corresponding Author: Alan Cuthbertson
Other Author: P. Davies

AIR TRANSPORT DOWNSTREAM OF CHUTE AERATORS
Corresponding Author: Michael Pfister
Other Author: w. H. Hager, H.E. Minor

A LES INVESTIGATION OF THE STRUCTURE OF INTRUSIVE BOUSSINESQ GRAVITY CURRENTS
Corresponding Author: Ooi Seng Keat
Other Author: G. Constantinescu, L. Weber
DIFFUSER SYSTEM
Corresponding Author: Jayme Pinto Ortiz
Other Author: K.L. Bessa

EXPERIMENTAL STUDY ON MERGING BUOYANT JETS IN STAGNANT AMBIENT
Corresponding Author: Siwan Lyu
Other Author: S. Il Won, K. Young Do

NUMERICAL SIMULATION OF TWO-PHASE AIR-WATER FLOW
Corresponding Author: Mohammad Reza Kavianpour
Other Author: S. Moazami

AN EXPERIMENTAL STUDY ON AIR-WATER JETS
Corresponding Author: Iran E. Lima Neto
Other Author: D.Z. Zhu, N. Rajaratnam

FLOW ESTABLISHMENT OF CONCENTRATION FIELD IN SUBMERGED ROUND JETS
Corresponding Author: K.M. Lam
Other Author: C.M. Or, C.K. Poon

LONGITUDINAL DISPERSION IN STRAIGHT CHANNELS: THE LAGRANGIAN APPROACH
Corresponding Author: Marilena Pannone

A SMALL SCALE NUMERICAL EXPERIMENT OF LAGRANGIAN MIXING IN A TIDALLY DRIVEN, MID-LATITUDE BOTTOM BOUNDARY LAYER
Corresponding Author: Vincenzo Armenio
Other Author: G. Lupieri, S. Salon

TURBULENCE AND FREE SURFACE INTERACTION
Corresponding Author: Sandro Longo

DECAYING TWO-DIMENSIONAL ROTATING TURBULENCE: LABORATORY EXPERIMENTS
Corresponding Author: Stefania Espa
Other Author: A. Cenedese, G. Carnevale, M. Mariani

EXPERIMENTAL INVESTIGATION ON THE TURBULENT STRUCTURES INVOLVED IN PARTICLE MOTION
Corresponding Author: Julie Le Louvetel-Poilly
Other Author: F. Bigillon, J.-Y. Champagne

TRANSPORT AND DIFFUSION OF DISSOLVED SUBSTANCES IN WATER PIPE NETWORKS
Corresponding Author: Carlos Cruickshank-Villanueva

THE IMPROVING OF AN ANALOGICAL DYE TRACER METHODOLOGY OF THE FAR FIELD SUBMARINE OUTFALL PLUME DISPERSION PLUME DISPERSION
Corresponding Author: Emilia Arasaki
Other Author: P. Alfredini, R.F. do Amaral

CFD MODELING OF TURBULENT JET MIXING IN A WATER STORAGE TANK
Corresponding Author: Michael Marek
Other Author: T. Stoesser, P.J.W. Roberts; V. Weitbrecht; G.H. Jirka

SCALE-DEPENDENT DISPERSION IN RIVERS
Corresponding Author: Zhi-Qiang Deng
Other Author: J. Hoon-Shin

DENSITY, VELOCITY AND TURBULENCE IN A LOCK-RELEASE GRAVITY CURRENT: INSIGHTS FROM DIRECT NUMERICAL SIMULATION
Corresponding Author: James R. Hoyes
Other Author: D.B. Ingham, W.D. McCattrey, L. Elliot, J. Peakall, M. Pourkashanian
THEME C1.b
Localized hydraulic phenomena

**VELOCITY AND TURBULENCE MEASUREMENTS IN A SCOUR HOLE AT DIFFERENT SCOURING STAGES**
Corresponding Author: Claudia Adduce
Other Author: G. Sciortino, P. Mele

**STEP POOL RAMP STABILITY DEPENDENT ON STEP BOULDER SHAPE, ADJUSTMENT AND FILTER MATERIAL**
Corresponding Author: Natascha Korecky

**SCOUR DEVELOPMENT AT ELLIPTICAL GUIDE BANKS DURING MULTIPLE FLOODS**
Corresponding Author: Boriss Gjunsburgs
Other Author: R. Neilands

**COHERENT STRUCTURES IN THE FLOW AROUND A VERTICAL BRIDGE ABUTMENT AT EQUILIBIRIUM SCOUR CONDITIONS**
Corresponding Author: Mete Koken
Other Author: G. Constantinescu

**EFFECT OF ARRANGEMENT OF CYLINDER TYPE BAFFLE BLOCK ON DRAG AND LIFT FORCE CONSTRUCTED IN STILLING BASIN**
Corresponding Author: Kouki Onitsuka
Other Author: J. Akiyama, M. Shige-edo, T. Nakagawa, H. Ozeki, H. Hatanaka

**CALCULATING TRANSVERSE MIXING COEFFICIENT FOR TIGRIS RIVER SHARP BEND WITHIN BAGHDAD CITY**
Corresponding Author: Thana Al-Shalchi
Other Author: N. Al-Ani

**EFFECT OF FLOW DEPTH AND COLLAR WIDTH ON THE SCOUR DEPTH AT BRIDGE ABUTMENTS**
Corresponding Author: S. Yurdagul Kumcu
Other Author: M. Gogus

**ENERGY DISSIPATION IN SUBMERGED BLOCK RAMPS AT FIXED SLOPE**
Corresponding Author: Stefano Pagliara
Other Author: D. Rajib, M. Palermo

**2D-FLOW MEASUREMENT AROUND A CYLINDRICAL PIER IN A 180° CHANNEL BEND**
Corresponding Author: Yaser Emami
Other Author: M. Ghodsian, A.A. Dehghani
AIR BUBBLE ENTRAINMENT IN HYDRAULIC JUMPS: PHYSICAL MODELING AND SCALE EFFECTS
Corresponding Author: Hubert Chanson

THREE-DIMENSIONAL NUMERICAL STUDY OF RIVER CHANNEL CONFLUENCE WITH BED CHANGES
Corresponding Author: Amir Reza Zarrati
Other Author: A. Shakibaeinia, T. Majdzadeh, M. Reza

BOUNDARY LAYER SEPARATION BENEATH SUBMERGED JUMP FLOWS
Corresponding Author: Raul Antonio Lopardo
Other Author: J.M. Casado

ESTIMATION METHOD FOR FLOOD FLOW BY MINI-MODEL
Corresponding Author: Ryoichi Matsumoto
Other Author: I. Nihei, K. Tabata

FLOW FEATURES IN PLUNGE POOLS
Corresponding Author: Jens Unger
Other Author: W.H. Hager

EFFECT OF BED SHEAR STRESS ON DEVELOPMENT OF SCOURING AROUND BRIDGE PIERS PROTECTED BY A COLLAR
Corresponding Author: M.B. Mashahir
Other Author: A.R. Zarrati, E. Mokallaf

TIME EVOLUTION OF LOCAL SCOUR DUE TO FREE OVERFALL
Corresponding Author: Amin Salamatian
Other Author: H. Ranjbar, M. Ghodsian

EXPERIMENTAL OBSERVATIONS ON UNDULAR HYDRAULIC JUMPS WITH VERY HIGH ASPECT RATIO
Corresponding Author: Francesca De Serio
Other Author: M. Ben Meftah, M. Mossa, A. Pollio

FUZZY ALGORITHM FOR ESTIMATION OF HYDRAULIC JUMP AERATION EFFICIENCY
Corresponding Author: Serhat Kucukali
Other Author: C. Sevket

EVALUATING HYDRODYNAMIC PRESSURES IN THE STILLING BASIN OF PORTO COLOMBIA HYDROELECTRIC POWER PLANT
Corresponding Author: Marcelo Giulian Marques
Other Author: M. Marcio Rogar, A.A. Mees Alves, E.D. Teixeira, F. Moraes de Almeida

ANALYSIS OF HIGHER-ORDER VELOCITY MOMENTS IN A TWO-DIMENSIONAL SCOUR HOLE.
Corresponding Author: Ram Balachandar
Other Author: M.A.A. Faruque, A. Bey

SCOUR BY SUBMERGED SQUARE WALL JETS AT LOW DENSIMETRIC FROUDE NUMBERS
Corresponding Author: Ram Balachandar
Other Author: M.A.A. Faruque, P. Sarathi

A EXPERIMENTAL STUDY ON SHEAR STRESS VARIATION BY SCOUR PROGRESS
Corresponding Author: Joon Gu Kang
Other Author: Y. Hong Koo Yeo, K. Sung

MODELLING LOCAL SCOUR IN RIVERS USING THE MOVABILITY NUMBER APPROACH
Corresponding Author: Neil Armitage
Other Author: B. Abban
NUMERICAL SIMULATION OF LOCAL SCOUR PROCESS DUE TO SUBMERGED JET DOWNSTREAM OF A GROUNDSILL
Corresponding Author: Tatsuhiko Uchida
Other Author: S. Fukuoka

COMPARATIVE CFD AND SCALE MODEL ANALYSIS OF THE FLOW COMPLEXITY AT A RIVER CONFLUENCE
Corresponding Author: Sandor Baranya
Other Author: J. Jozsa

EFFECTS OF BED FRICTION ON THE STABILITY OF HYDRAULIC JUMP ON ADVERSE SLOPE
Corresponding Author: Francesca Maria Susin
Other Author: A. Defina

ADVANCED NUMERICAL MODELLING OF THE SCOURING PROCESS AROUND THE PIERS OF A BRIDGE
Corresponding Author: Davide Motta
Other Author: R.T. Ramon Pacheco

TEMPORAL EVOLUTION OF LIVE-BED SCOUR AT BRIDGE PIERS
Corresponding Author: Giuseppe Oliveto
Other Author: A. Di Domenico, V. Comuniello

FLOW CONTROL BY THE HANAGURI CHANNEL, A MONUMENTAL IRRIGATION WORK BY KIYOMASA KATO
Corresponding Author: Terunori Ohmoto
Other Author: H. Ito

NUMERICAL AND PHYSICAL MODEL OF SPILLWAY STILLING BASIN
Corresponding Author: Jose Carlos C. Amorim
Other Author: R.C. Rodrigues

EFFECT OF SEDIMENT SIZE ON LOCAL SCOUR AT SPUR DIKES
Corresponding Author: Ali Nasrollahi
Other Author: M. Ghodsian, A. A. Salehi Neyshabouri

BRIDGE SCOUR CAUSED BY A FLOOD WAVE
Corresponding Author: Shunqi Pan
Other Author: A. Khm; J. Fajrin

CLUSTERING PROCESS ANALYSIS IN A LARGE-SIZE DROPShaFT AND IN A HYDRAULIC JUMP
Corresponding Author: Carlo Gaultieri
Other Author: H. Chanson

EXPERIMENTAL STUDY ON RIPRAP PROTECTION OF VERTICAL-WALL ABUTMENTS
Corresponding Author: Cristina Maria Sena Fael
Other Author: A.H. Cardoso

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THEME C1.c

Mathematical (numerical) modelling of complex flow fields

THREE-DIMENSIONAL NUMERICAL INVESTIGATION OF FLOW REGIMES IN STEP-POOLS - LIMITS OF UNSTEADY WAVE GENERATION
Corresponding Author: Georg Premstaller
Other Author: P. Rutschmann

EFFECT OF CANALIZATION ON INUNDATION AND SUSPENDED SEDIMENT DEPOSITION IN PLAIN OF REEDS, MEKONG DELTA, VIETNAM
Corresponding Author: Pham Ngoc
Other Author: S. Kazama, M. Sawamoto

AN IMPROVED DISCHARGE PREDICTION METHOD FOR OVERBANK FLOWS
Corresponding Author: Xiaonan Tang
Other Author: D.W. Knight

AN EXPERIMENTAL AND NUMERICAL STUDY OF THE EFFECTS OF WIDTH OF MEANDERING MAIN CHANNEL ON OVERBANK FLOWS
Corresponding Author: Peter Wormleaton
Other Author: M. Marriott

NUMERICAL SIMULATION OF FLOW AT ‘Y’ SHAPED OPEN-CHANNEL JUNCTIONS
Corresponding Author: Guo Weidong
Other Author: Y. Liping, Y. Feng

COMPARISON OF METHODS FOR PREDICTING CONVEYANCE CAPACITY IN COMPOUND CHANNELS
Corresponding Author: Er Huang
Other Author: Y. Kejun; L. Xingnian, C. Shuyou

BED LOAD DISCHARGE FORMULA OF A SELF-FORMED CHANNEL BASED UPON THE CONCEPT OF ENTROPY IN AN ARMORING PROCESS
Corresponding Author: Er Huang
Other Author: L. Xingnian, Y. Kejun, C. Shuyou

THE EFFECT OF FLOODPLAIN ENGINEERING WORKS ON THE MORPHOLOGY OF MEANDERING CHANNELS
Corresponding Author: Peter Wormleaton
Other Author: R. Sellin, F. Bhuiyan

A THREE-DIMENSIONAL NUMERICAL MODEL FOR LARGE-SCALE RIVER FLOW WITH A NEW MODE-SPLITTING TECHNIQUE
Corresponding Author: Yasuo Nihei
Other Author: Y. Kato, K. Sato
COHERENT EDDY STRUCTURE IN MEANDERING COMPOUND OPEN-CHANNEL FLOWS
Corresponding Author: Michio Sanjou
Other Author: I. Nezu, H. Quang

ESTIMATING PARAMETERS FOR CONVEYANCE IN 1D MODELS OF OPEN CHANNEL FLOW FROM LARGE EDDY SIMULATION
Corresponding Author: Faye Beaman
Other Author: H. Morvan, N. Wright

TURBULENCE MODELING OF SOLUTE TRANSPORT IN OPEN-CHANNEL FLOWS
Corresponding Author: Sung-Uk Choi
Other Author: K. Hyeongsik

NUMERICAL SIMULATION OF HYDRAULIC JUMP BY 1-D IMPLICIT UPWIND MODEL
Corresponding Author: Won Kim
Other Author: Y. Hongkoo

TWO-DIMENSIONAL MODELLING OF DISCHARGE DISTRIBUTION IN VEGETATED COMPOUND CHANNEL (BESOS RIVER)
Corresponding Author: Ernest Blade
Other Author: M. Gomez-Valentin, M. Sanchez-Juny, J. Pomares

FLOW AND BED EVOLUTION IN A RESTORED EMBAYMENT
Corresponding Author: Yasunori Muto
Other Author: S. Aya

THREE-DIMENTIONAL COMPUTATIONS OF COMPOUND CHANNEL FLOW
Corresponding Author: Yang Xiao
Other Author: S. Li

ENERGY AND MOMENTUM APPROACHES FOR ANALYSIS OF GRADUALLY-VARIED FLOW THROUGH COMPOUND CHANNELS
Corresponding Author: Seyed Mahmood Hosseini
Other Author: S.M.R. Alavi-Moghaddam

FLOW VISUALIZATION EXPERIMENTS ON HORIZONTAL COHERENT STRUCTURE IN COMPOUND CHANNEL FLOW WITH 45' INTERFACE GEOMETRY
Corresponding Author: Yang Xiao
Other Author: W. Zhi-qian

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THEME C2.a

Water distribution and drainage network

NON-STABLE WATER MOTION IN DISTRIBUTION NETWORK HAVING WATER TOWER IN CASE OF ALTERATION OF THE NUMBER OF OPERATING GROUPS
Corresponding Author: Arkadi Barkhurayan
Other Author: V. Lachinyan

STUDY ON HELICOIDAL-RAMP TYPE DROPSHAFTS WITH BIDIRECTIONAL INFLOWS
Corresponding Author: Shizuo Yoshikawa
Other Author: Y. Moriya, T. Meguro, M. Matsuura

STUDY OF STORMWATER STORAGE AND INFILTRATION TECHNOLOGY ON CSO CONTROL
Corresponding Author: Osamu Kobayashi
Other Author: R. Maeshima, M. Matsuura
THEME C2.b

Hydraulic Structures

SELF-SIMILARITY OF AIR-WATER FLOWS IN SKIMMING FLOWS ON STEPPED SPILLWAYS
Corresponding Author: Hubert Chanson
Other Author: G. Carosi

INFLUENCE OF RECTANGULAR IMPINGE JET’S ASPECT RATIO ON DYNAMIC PRESSURE
Corresponding Author: Li Futian

TWO DIMENSIONAL MODELLING OF RIVER BIFURCATIONS
Corresponding Author: Farhad Yazdandoost
Other Author: M. Rezapour

PRESSURES CHARACTERIZATION OF UNDEVELOPED AND DEVELOPED JETS IN SHALLOW AND DEEP POOL
Corresponding Author: Luis G.E. Castillo

EXPERIMENTAL INVESTIGATION ON SCOUR AROUND SPUR DIKES LOCATED AT DIFFERENT POSITIONS IN A 90° BEND
Corresponding Author: Majid Fazli
Other Author: M. Ghodsian, S.A.A.S. Neshabori

EFFECT OF RELATIVE SUBMERGENCE ON THE FLOW AND MASS EXCHANGE PROCESSES IN A CHANNEL WITH TWO LATERAL GROYNES
Corresponding Author: Andy McCoy
Other Author: G. Constantinescu, L. Weber

SHALLOW FLOW VISUALIZATION AND COHERENT STRUCTURES AROUND A SINGLE GROYNE
Corresponding Author: Akihiro Kadota
Other Author: K. Suzuki, A. Rummel, V. Weitbrecht, G.H. Jirka

OSCIILLATIONS IN A CHANNEL WITH RECTANGULAR WIDENINGS AT THE SIDE WALLS
Corresponding Author: Tobias Meile
Other Author: J.L. Boillat, J. Dubois, A.J. Schleiss

HYDRAULIC CHARACTERISTICS OF A GROUP OF PERMEABLE GROINS CONSTRUCTED IN AN OPEN CHANNEL FLOW
Corresponding Author: Li Zuisen
Other Author: M. Kohji, M. Shiro
APPLICATION OF SLIT-TYPE DISSIPATOR IN OVERFLOW SPILLWAYS OF HIGH GRAVITY DAM
Corresponding Author: Shuangke Sun
Other Author: G. Yunsheng, L. Qihuang, C. Nengping

HYDRAULICS OF A SUBMERGED WEIR AND APPLICABILITY
Corresponding Author: Sui Liang Huang
Other Author: N. Chiu-On

HYDRAULIC CHARACTERISTICS OF PARTIAL OPENING OF THE GATE FOR A DISCHARGE TUNNEL
Corresponding Author: Jianhua Wu
Other Author: F. Shurong

STEP AERATOR AND SPRAY REDUCTION FOR STEPPED CHUTES
Corresponding Author: Michael Pfister
Other Author: W.H. Hager, H.E. Minor

RELATIONSHIP BETWEEN VORTEX CORE RADIUS AND WATER-SURFACE CURVATURE CHARACTERISTIC RADIUS
Corresponding Author: Mao Ye

AIR-WATER FLOW ANALYSIS USING NUMERICAL, EXPERIMENTAL AND SIMULATED ANNEALING METHODS
Corresponding Author: Amir Aghakouchak
Other Author: N. Nasrollahi, D. Schlabing, J. Tuhtan, M.R. Kavianpour

NUMERICAL SIMULATION OF BOTTOM AERATION DEVICES IN A MILDLY SLOPING SPILLWAY TUNNEL WITH LARGE UNIT DISCHARGE AND LOW FROUDE NUMBER
Corresponding Author: Liao Huasheng

EXPERIMENTAL STUDY OF ENERGY DISSIPATION IN RADIAL STILLING BASINS USING ARTIFICIAL HOLED BED-SHEETS
Corresponding Author: Ehab Abdelsalam
Other Author: A. Papanicolaou, T. El Tahawy, M. Elhakeem

DISCHARGE CAPACITY THROUGH THE SLUICEWAY GATE OPENINGS AT A PROJECTED HYDROMATRIX POWER PLANT
Corresponding Author: Volker Kienberger
Other Author: B. Huber

VALIDATING THE DAM SAFETY INDEX METHODOLOGY
Corresponding Author: Monica Soares Resio Zuffo
Other Author: A.I.B. Genovez

EFFECT OF AERATED INFLOWS ON CHARACTERISTICS OF PLUNGING FLOWS IN STEEP SLOPING CHANNELS
Corresponding Author: Youichi Yasuda
Other Author: I. Ohtsu, M. Takahashi

HYDRAULICS OF SKI JUMPS
Corresponding Author: Valentin Heller
Other Author: W.H. Hager, H.E. Minor

MODEL SCALE EFFECT ON THE INCEPTION POINT OF AIR ENTRAINMENT IN FLOWS OVER SETTEPPED SPILLWAYS
Corresponding Author: Gokcen Bombar
Other Author: M.S. Guney

VERIFICATION OF ALTERNATIVE MATHEMATICAL MODEL FOR DESIGN OF VORTEX DROPSHAFTS
Corresponding Author: Giulio Ciaravino
Other Author: L. Ciaravino
USE OF POLYMERS FOR PROTECTION OF CONCRETE AND REINFORCED CONCRETE STRUCTURES AND PREVENTION OF FILTRATION FROM HYDROTECHNICAL BUILDINGS
Corresponding Author: Hovhannes Tokmajyan
Other Author: A.P. Yeroyan

EXPERIMENTAL RESULTS OF FLOW ENERGY DISSIPATION ON STEPPED CHUTES USING VANES AT THE STEP CAVITY
Corresponding Author: Ciro Menendez

CIRCULAR DROP MANHOLES PRELIMINARY EXPERIMENTAL RESULTS
Corresponding Author: Francesco Granata
Other Author: G. De Marinis, R. Gargano, W.H. Hager

EFFECT OF SEDIMENT LOAD ON DISCHARGE COEFFICIENT OF SLUICE GATES
Corresponding Author: Omid Mohammad Hosein
Other Author: A. Habibzadeh, H. Nozari

FLOW TRANSITIONS EFFECTS ON DISCHARGE CHARACTERISTICS OF GATED STANDARD SPILLWAYS
Corresponding Author: Guy-Michel Cicero

EVALUATION OF HYDRODYNAMIC FORCE ON TIED STONES
Corresponding Author: Shiro Maeno
Other Author: M. Fujiwara, A. Tomita, A. Yamamura, K. Kaseguma

PROTOTYPE OBSERVATION OF SHAFT HORIZONTAL VORTEX SPILLWAY OF GONGBOXIA HYDROPOWER PROJECT
Corresponding Author: Wenxue Chen
Other Author: L. Jiguang, G. Jun, H. Di, S. Shicun

LABORATORY STUDY OF 3 DIMENSIONAL CHARACTERISTICS OF RECIRCULATING FLOW IN A RIVER EMBAYMENT
Corresponding Author: Susan Gaskin
Other Author: E. Jamieson

NUMERICAL MODELING STUDY FOR FLOW PATTERN CHANGES INDUCED BY SINGLE GROYNE
Corresponding Author: Jungseok Ho
Other Author: H. Koo Yeo, J. Coonrod, A. Won-Sik

EXPERIMENTAL STUDY ON VELOCITY DISTRIBUTION OF FLOW FIELD OF INCLINED CREST GROYNE
Corresponding Author: Youngsin Roh
Other Author: K. Joon Goo, Y. Hong Ku

BALLASTED FILTERING MATTRESSES FOR THE BASE LAYER (FILTER) OF A RIPRAP PROTECTION AND/OR FOUNDATIONS OF OFFSHORE STRUCTURES
Corresponding Author: Francesco Ferraiolo
Other Author: M. Vicari

COMPUTER SIMULATION FOR OBTAINING HYDRODYNAMIC FORCES ON RADIAL AND LEAF GATES WITHIN A HIGH PRESSURE CONDUIT
Corresponding Author: Mohammad Zounemat Kermani
Other Author: M.-R. Kavianpour

NEW STRUCTURES OF ENERGY DISSIPATION FOR COASTAL OUTFALL OF A DRAINAGE PROJECT
Corresponding Author: Kailin Yang

CHARACTERISTICS OF AERATED FLOWS IN SKIMMING, TRANSITION, AND NAPPE FLOWS
Corresponding Author: Masayuki Takahashi
Other Author: Y. Yasuda, I. Ohtsu
CASE ANALYSIS OF HYDRAULIC RESONANCE AT A HYDROPOWER PLANT AND VIBRATION REDUCTION OF AIR CHAMBER
Corresponding Author: Jianxu Zhou
Other Author: C. Fulin, Y. Wang

LOCAL FAILURE OF BASE BLOCK RAMPS
Corresponding Author: Stefano Pagliara
Other Author: I. Lotti

SCOUR PROCESSES AT SPURS: PHENOMENOLOGY AND COUNTERMEASURES
Corresponding Author: Corrado Gisonni
Other Author: W. H. Hager

3D VELOCITY FIELD GENERATED BY A SIDE ORIFICE IN AN OPEN-CHANNEL
Corresponding Author: Gilles Belaud
Other Author: X. Litrico

CAVITATION DAMAGES AND AERATORS ON MEXICAN DAMS
Corresponding Author: Gabriel Echyvez

STUDY ON AERATORS OF HIGH HEAD SPILLWAY TUNNELS
Corresponding Author: Chen Wenxue
Other Author: L. Guifen, X. Shengzong, Y. Kailin

COMPUTING VELOCITY AND AIR CONCENTRATION PROFILES USING DEPTH-AVERAGED SOLUTION OF SKIMMING FLOW ON STEPPED SPILLWAYS
Corresponding Author: Rosita Safahieh
Other Author: S.R. Sabbagh-Yazdi

EXPERIMENTAL STUDY ON FLOW FIELD AND SCOURING AROUND A SPUR DIKE IN NINTY DEGREE BEND
Corresponding Author: Mohammad Javad Forghani
Other Author: M. Fazli, M. Ghodsian

ROCK SCOUR DOWNSTREAM SKI-JUMPS: COMPARISON OF PROTOTYPE OBSERVATIONS WITH ANALYTICAL AND PHYSICAL-MODEL ESTIMATES
Corresponding Author: Pedro Manso
Other Author: M. Marques, F. Almeida, A. Canellas, M. Botelho

STATISTICAL MODELING OF DAMS BASED ON ORDER SERVICE PROCESSES AND POTENTIAL EVENTS OF FAILURE
Corresponding Author: Mariana Maradjieva

THE EFFECT OF MESH STRUCTURES ON SALINITY INTRUSION
Corresponding Author: Yasuhiro Yoshikawa
Other Author: H. Yasuda, Y. Watanabe

FLOW CHARACTERISTIC VARIATIONS ON GROYNE TYPES FOR AQUATIC HABITATS
Corresponding Author: Hong Koo Yeo
Other Author: J. Gu Kang, Y. Sin Rho

LARGE EDDY SIMULATION OF VORTEX FLOW IN INTAKE CHANNEL OF HYDROPOWER FACILITY
Corresponding Author: Akihiko Nakayama
Other Author: Hisasue, Nobuyuki

EXPERIMENTAL OBSERVATIONS ON SEEPAGE THROUGH A LEVEE: EFFECT OF FLOW
Corresponding Author: Dongkyun Im
Other Author: K. Kyu-Ho, Y. Hongkoo Yeo, Y. Byeongmo

FLOW THROUGH SIDE SLUICE GATE IN A CURVED CHANNEL
Corresponding Author: Farshid Feyzollah
Other Author: A.A. Dehghani, M. Ghodsian
LOW HEAD STILLING BASIN WITH IMPROVED DISSIPATION EFFICIENCY - SIDE DISSIPATION BEAMS
Corresponding Author: Jurij Mlacnik
Other Author: D. Ciuha

VALUATION OF THE INTAKE HEAD LOSS COEFFICIENT'S BEHAVIOR WITH ASYMMETRIC FLOWS
Corresponding Author: Cristiane Collet Battiston
Other Author: A. Canellas, V. Brandao; M.G. Marques

HYBRID MODELING OF AN INTAKE FOR HYDRAULIC OPTIMIZATION
Corresponding Author: Stefan Walder
Other Author: P. Rutschmann

ESTIMATION OF CAVITY LENGTH BEHIND AERATORS
Corresponding Author: Jianhau Wu
Other Author: S. Ruan

DISCHARGE COEFFICIENTS FOR SLUICE GATES IN WEIRS
Corresponding Author: Francesco Calomino
Other Author: A. Lauria, A. Miglio, G. Palma

PRESSURE PULSATIONS IN BOTTOM OUTLET TUNNELS
Corresponding Author: Friedrich Schoberl
Other Author: R. Reindl

DISCHARGE COEFFICIENTS OF SHARP-CRESTED SIDE-WEIR IN THE BROAD OPEN CHANNEL
Corresponding Author: Dong Sop Rhee
Other Author: K. Chang Wan

EXPERIMENTAL STUDY OF THE GATED SPILLWAY OF THE SHAHRYAR DAM IN IRAN
Corresponding Author: Remi Martinerie
Other Author: J.-L. Boillat, A. Schleiss, A. Parvaelesh Rizi, A. Wohnlich

REHABILITATION OF ST-MARC DAM. EXPERIMENTAL OPTIMIZATION OF A PIANO KEY WEIR
Corresponding Author: Jean-Louis Boillat
Other Author: M. Leite Ribeiro, A.J. Schleiss, F. Laugier, C. Albalat

HYDRAULIC DESIGN OF SPILLWAYS IN THE RECHARGE-STORAGE DAMS REGARDING THE RESERVOIR FLOOD CONTROL CAPACITY
Corresponding Author: Baharak Baradaran
Other Author: M.A. Pourhasan, H.R. Sadeghi

PYRAMIDAL BAFFLE BLOCKS IN OPEN CHANNEL FLOW
Corresponding Author: Henriette Katscher
Other Author: J. Lengricht, M. Peukert

EXPERIMENTAL INVESTIGATION OF AIR INCEPTION POINT ON STEPPED SPILLWAYS
Corresponding Author: M.R. Kavianpour
Other Author: H. R. Masoumi

INFLUENCE OF GROYNES ON GROWTH OF VEGETATION
Corresponding Author: Ryuichi Hirakawa
Other Author: T. Ohmoto, K. Watanabe

NUMERICAL SIMULATION OF A FREE SURFACE VORTEX FORMED IN THE WAKE OF A PIER AT A HYDROPOWER INTAKE
Corresponding Author: France Suerich-Gulick
Other Author: S. Gaskin, M. Villeneuve, E. Parkinson

RIVER GROYNES FOR THE FUTURE - HARMONIZING TODAY'S DEMANDS IN INNOVATIVE GROYNE DESIGN
PRESSURE HEAD ALONG BAFFLE STILLING BASINS DOWNSTREAM OF STEEPLY SLOPING STEPPED CHUTES
Corresponding Author: Goncalo Cardoso
Other Author: I. Meireles, J. Matos

IMPROVEMENT OF FLOATING GATE DESIGN FOR C-1 NAVIGATION PASS OF ST. PETERSBURG FLOOD PROTECTION BARRIER
Corresponding Author: Vitaly Klimovich
Other Author: V. Chernetsov, V. Kupreev

PREDICTING CAVITATION INCEPTION ON STEEPLY SLOPING STEPPED SPILLWAYS
Corresponding Author: Jaime Gomes
Other Author: M. Marques, J. Matos

THE INFLUENCE OF ROCK FISSURE OPENING DIMENSIONS IN PLUNGE POOL SCOUR
Corresponding Author: Pedro Manso
Other Author: V. Fiorotto, A. Schleiss

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THEME C2.c

Hydraulic machinery

PROTECTION OF THE PUMPING STATION'S PRESSURE PIPELINE FROM THE HYDRAULIC HAMMER BEING ACCOMPANIED BY INTERMEDIATE BREAK UP OF THE FLOW CONTINUITY
Corresponding Author: Albert Margaryan
Other Author: V. Tokmajyan

EXPERIMENTAL INVESTIGATION OF VORTEX ROPES IN A STRAIGHT CONE DRAFT TUBE
Corresponding Author: Oliver Kirschner
Other Author: A. Ruprecht

STREAM WHEELS FOR APPLICATIONS IN SHALLOW AND DEEP WATER
Corresponding Author: Gerald Muller
Other Author: S. Denchfield, R. Marth, B. Shelmerdine

THE DEVELOPMENT OF THE ROTARY HYDRAULIC PRESSURE MACHINE
Corresponding Author: James Alexander Senior
Other Author: G. Muller, P. Wiemann

REVIEW OF CURRENT DEVELOPMENTS IN LOW HEAD, SMALL HYDROPOWER
Corresponding Author: Patrick Wiemann
Other Author: G. Muller, J. Senior

INFLUENCE OF NOZZLE EXIT CROSS SECTION SHAPE ON PERFORMANCE OF JET PUMP
Corresponding Author: Xinping Long
Other Author: H. Ning

MECHANICAL FAILURE IN A PIPELINE DUE TO CHECK VALVE SLAM
Corresponding Author: Gabriel Soto
Other Author: F. Rivera, D. Guaycochea
THEME D1.a

Hydrodynamics and morphodynamics of coastal systems

Cross-shore distributions of longshore current velocity
Corresponding Author: You Tao

Wave propagation over submerged double impermeable breakwaters
Corresponding Author: Panayotis Prinos

Hybrid finite-volume modelling of the surf zone
Corresponding Author: Marco Petti
Other Author: S. Bosa

Large-eddy simulation of turbulent boundary layer by steady or oscillatory current flow over flat, wavy or rippled bottom
Corresponding Author: Athanassios Dimas
Other Author: E. Balaras, D. Grigoriadis

Coastal developments in harmony with nature and society
Corresponding Author: Karsten Mangor
Other Author: H. Dan Borgen

ALS - a coastal engineering model for wave propagation, wave-structure interaction and bed morphology evolution
Corresponding Author: Theophanis Karambas
Other Author: E. Koutandos, N. Kampanis

Scale modeling of hydraulic-fill beaches formed by non-segregating tailings
Corresponding Author: Behnam Pirouz
Other Author: M.R. Kavianpour, P. Williams

Modelling beach profile evolution of beachrock infected beaches using a Boussinesq model
Corresponding Author: Michalis I. Vousdoukas
Other Author: V.T. Karambas, F.A. Velegrakis

Modelling of fine sediment in a sandy environment - The coastal zone of the Netherlands -
Corresponding Author: B.C. van Prooijen
Other Author: T. van Kessel, M. van Ledden

Influence of coastal defences on the surfability
Corresponding Author: Virginia Sanchez Rojas
Other Author: A. Lechuga Alvaro; J.M. de la Pena Olivas
THEME D1.b

Hydrodynamics and morphodynamics of estuarine systems

WATER QUALITY MODELING IN COMPLICATED ESTUARINE AREAS
Corresponding Author: Yu Dai
Other Author: W. Deguan

ANALYSIS OF FACTORS WHICH CONTRIBUTE TO RIVER-BED VARIATION AT YOSHINO RIVER MOUTH
Corresponding Author: Kohji Uno
Other Author: S. Nakano, G. Tsujimoto, T. Kakinoki

EFFLUENT DISPERSION IN A MACRO-TIDAL TROPICAL ESTUARY
Corresponding Author: Eric Valentine
Other Author: P. Totterdell

TWO-DIMENSIONAL LARGE EDDY SIMULATIONS FOR SHALLOW-FLOWS: A CASE OF A BACKWARD FACING STEP FLOW
Corresponding Author: Awad Esam
Other Author: P. Widera, C. Lacor, E. Toorman

SPATIO-TEMPORAL TOPOGRAPHICAL CHANGE AROUND JINUO IN NAKDONG RIVER ESTUARINE, KOREA
Corresponding Author: Yi Byung-Ho
Other Author: L. In-Cheol, Y. Han-sam

SHORELINE CHANGE IN PAST RIVER MOUTH OF IWAKI RIVER
Corresponding Author: Mikio Sasaki
Other Author: S. Masashi

QUASI-3D COASTAL AREA MODEL AND ITS APPICATION TO MORPHODYNAMIC AROUND RIVER-MOUTH
Corresponding Author: Masamitsu Kuroiwa
Other Author: T. Kuchiishi, Y. Matsumbara

SPATIOTEMPORAL CHANGES OF THE SAND BARRIER USING MARINE CHARTS ANALYSIS IN THE NAKDONG RIVER ESTUARY
Corresponding Author: Yoo Chang-Ill
Other Author: Y. Han-sam, R. Cheong-ro, L. In-cheol

NUMERICAL MODELLING OF THE MORPHODYNAMIC EVOLUTION OF SAND BANKS IN THE GIRONDE ESTUARY
Corresponding Author: Nicolas Chini
Other Author: C. Villaret
EFFECTS OF BOTTOM-HEIGHT CHANGES ON MAXIMAL EXCHANGE-FLOW ESTIMATES IN CHANNELS WITH QUADRATIC-SHAPE CROSS SECTIONS
Corresponding Author: Janek Laanearu
Other Author: P.A. Davies, T. Koppel

UNDERSTANDING THE WATER SURFACE ELEVATION FORCING MECHANISMS FOR THE ST. JOHNS RIVER
Corresponding Author: Scott C. Hagen
Other Author: Y. Funakoshi

EFFECT OF TIDAL FLATS ON TIDE PROPAGATION IN CHANNELS
Corresponding Author: Nicoletta Tambroni
Other Author: G. Seminara

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THEME D2.b

Extreme and ordinary events in coastal management

COASTAL EROSION OF KASHIMA COAST AND ITS COUNTERMEASURE, THE COMPREHENSIVE SEDIMENT MANAGEMENT
Corresponding Author: Wada Kazunori

NUMERICAL SIMULATION OF WEAK SWIRLING FLOW FIELD IN TURBID WATER HYDRAULIC SEPARATION DEVICE
Corresponding Author: Lin Li
Other Author: X. Qiu, S. Jin

GRID NESTING FOR DISPERSION-CORRECTION FINITE DIFFERENCE MODEL FOR TSUNAMI SIMULATION
Corresponding Author: Sung Bum Yoon
Other Author: C.H. Lim, J.S. Bae, Y. J. Jeon

THE EXPERIMENTAL STUDY ON CLEAR WATER FIELD CHARACTERISTICS OF A TURBID WATER HYDRAULIC SEPARATION DEVICE
Corresponding Author: Xiuyun Qiu
Other Author: J. Xiao, Z. Zhou, J. Hou, S. Gong

RESEARCH ON IMPROVEMENT OF SEDIMENT BY CURRENT CONTROL TECHNOLOGY
Corresponding Author: Masashi Miyagawa
Other Author: Y. Suenaga, T. Hoshino, K. Yamaoka, M. Matsushima

THERMAL PLUME DISPERSAL OF THE SEOMJIN ESTUARINE CIRCULATION OF KOREA
Corresponding Author: Jong-Kyu Kim
Other Author: S. Hyun-Ku, L. Moon-Ock

ESTIMATION OF EXTREME STORM SURGES USING A SPATIAL LINKAGE ASSUMPTION
Corresponding Author: Panagiota Galiatsatou
Other Author: P. Prinos

A WAVE AND CIRCULATION COUPLED MODEL FOR WAVE TRANSFER TO COASTAL LOCATIONS
Corresponding Author: Luigi Cavaleri
Other Author: V. Filipetto

THE MODERN PREDICTABILITY OF THE BIG 1966 VENICE FLOOD
Corresponding Author: Luigi Cavaleri
Other Author: V. Masato, G. Umgiesser, L. Bertotti, R. Buizza
WAVE FIELD ANALYSIS FROM SAR IMAGES OF ENCLOSED SEAS  
Corresponding Author: Eugenio Pugliese Carratelli  
Other Author: F. Dentale, K. Rakha, F. Reale

MODELLING THE IMPACT OF CLIMATE CHANGE ON EXTREME STORM SURGES ON FRENCH COASTS  
Corresponding Author: Thierry Boulet  
Other Author: D. Violeau

DROPLET ENTRAINMENT AND SLICK’S CHARACTERISTICS IN THE OIL RETAINED BY A FLEXIBLE SPILL BARRIER  
Corresponding Author: Azin Amini  
Other Author: J.-L. Boillat, E. Bollaert, A. Schleiss

ANALYTIC SOLUTION FOR LONG WAVES PROPAGATING OVER AN ASYMMETRIC TRENCH  
Corresponding Author: Tae-Hwa Jung  
Other Author: S. Kyung-Duck

COASTAL MANAGEMENT MODEL OF HARMONIOUS DEVELOPMENT OF ECONOMY AND ECO-ENVIRONMENT FOR BOHAI BAY  
Corresponding Author: Jianhua Tao  
Other Author: N. Hongtao

MOLECULAR AND TURBULENT DISSOLVED SUBSTANCE DIFFUSION FROM FLOWING WATER INTO A SEDIMENT BED  
Corresponding Author: Makoto Higashino  
Other Author: H.G. Stefan

INTEGRATION OF RISK AND ASSET MANAGEMENT FOR SUSTAINABLE MANAGEMENT OF EUROPEAN COASTAL ZONES  
Corresponding Author: Ruud Raaijmakers  
Other Author: J. Krywkow, A. van der Veen

OBSERVATION ON THE CHARACTERISTICS OF WATER FLOW AND WATER QUALITY IN HORI RIVER  
Corresponding Author: Naoki Matsuo  
Other Author: M. Takeda

EXTENDED BOUSSINESQ EQUATIONS FOR RAPIDLY VARYING TOPOGRAPHY  
Corresponding Author: Gunwoo Kim  
Other Author: L. Changhoon, P. Woo Sun, S. Kyung-Duck

TRANSPORTATION OF SOLID BODIES IN WAVE FLOWS PREDICTED BY 3D MULTIPHASE MODEL  
Corresponding Author: Satoru Ushijima

WAVELET COHERENCE OVER SUBMERGED BREAKWATERS  
Corresponding Author: Athanasios Zeris  
Other Author: P. Panayotis

APPLICATION OF THE EQUIVALENT TRIANGULAR STORM MODEL FOR ESTIMATING COASTAL RISK  
Corresponding Author: Rosaria Ester Musumeci  
Other Author: V. Russo, F. Arena, C. Faraci, E. Foti

INUNDATION SCENARIO OF NAGOYA CITY CONSIDERING RISE OF SEA LEVEL DUE TO GLOBAL WARMING  
Corresponding Author: Parameshor Pokharel  
Other Author: M. Takeda, N. Matsuo

A DEMONSTRATOR FOR MANAGEMENT OF THE ST. PETERSBURG FLOOD PROTECTION BARRIER  
Corresponding Author: Monique Villars  
Other Author: H. Gerritsen, K. Heynert, B. Kleiss, K. Koster
ROLE OF GROIN FIELD FOR COASTAL PROTECTION CONSIDERING SOCIO ECONOMIC ASPECTS
Corresponding Author: Vallam Sundar
Other Author: R. Sundaravedivelu

STUDIES OF CHEMICAL TRANSPORT AND FATE PROCESSES
Corresponding Author: Yafei Jia
Other Author: Z. Tingting

ESTIMATION OF TREND BREAKS AND THEIR UNCERTAINTIES IN WATER LEVEL SERIES FOR DESIGN PURPOSES
Corresponding Author: Herman Gerritsen
Other Author: H. van den Boogaard

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