21st Century Watershed Technology Conference and Workshop: Improving Water Quality and Environment

May 27 – June 1
Hotel Palace
Bari, Italy
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XVI. Performance and Validation of Models for Water Quality/Quantity
XVII. Measuring Success – Post-Implementation Monitoring
XVIII. Solutions for Increasing Stakeholder Involvement in the Water Quality/Quantity Process

6:30-8:30PM Dinner (provided)

Wednesday, May 30, 2012

8:20AM -10:00AM CONCURRENT SESSIONS

XIX. Watershed Implementation Planning
XX. Pollution Control/Management Practices for Point and Nonpoint Sources
XXI. Field and Watershed Scale Modeling
XXII. Performance and Validation of Models for Water Quality/Quantity

10:00-10:20 AM BREAK

10:20AM -12:00PM CONCURRENT SESSIONS

XXIII. Wetlands, Stream and River Restoration, Bio-monitoring and Land Use Impacts on Downstream Water Bodies
XXIV. Ground water and nutrients

12:00PM-2:00PM LUNCH AND CLOSING CEREMONY:

POSTER SESSION
**Technical Program**

**Saturday, May 26, 2012**

**SWAT Workshop**  
Presenters: Jeff Arnold, Jaehak Jeong, Aziz Abouabdillah  
Location: IAM – Valenzano (Bari) Media Room  

**8:30AM - 5:00PM**  
Bus to workshop site at 8:00 AM from Palace Hotel Lobby

**Sunday, May 27, 2012**

**SWAT Workshop (Continue)**  
Presenters: Jeff Arnold, Jaehak Jeong, Aziz Abouabdillah  
(Bus to workshop site at 8:00 AM from Palace Hotel Lobby)  
Location: IAM – Valenzano (Bari) Media Room  

**8:30AM - 5:00PM**

**2:00PM - 5:00PM**  
REGISTRATION OPENS  
Palace Hotel Lobby

**6:00PM - 8:00PM**  
WELCOME RECEIPTION  
Palace Hotel “Sala degli Specchi”

**Monday, May 28, 2012**

**8:00AM - 5:00PM**  
REGISTRATION OPENS  
Palace Hotel Lobby

**8:30 AM - 10:00 AM OPENING CEREMONY**  
Session Moderator: Dr. Fedro Zazueta (UFIT)  
Palace Hotel “Sala degli Specchi”

Dr. Antonio Lo Porto (Water Research Institute IRSA-CNR)  
Dr. Ali Saleh(Texas Institute for Applied Environmental Research)  
Mr. Niki Vendola. (Governor of the Apulia Region)  
Mr. Liliana Cortellini. (Ministry of Environment)  
Dr. F. Dominic Dottavio. (President of Tarleton State University)

**10:00AM - 10:30AM BREAK**

**10:30AM - 12:00PM OPENING CEREMONY (GENERAL SESSION)**  
Session Moderator: Dr. Antonio Lo Porto

Dr. Narcis Prat. (University of Barcelona, Spain)  
Dr. Faycal Bouraoui. (EC JRC)  
Dr. Mark R. Walbridge (USDA-ARS, NPS)

**12:00PM - 1:20PM LUNCH (Provided)**  
Palace Hotel
1:20PM - 3:00PM CONCURRENT SESSIONS

I. Agricultural BMP Effectiveness
Location: Palace Hotel “Sala degli Specchi”
Moderator: Mark R. Walbridge (USDA-ARS)

Assessing the cost-effectiveness of reduced N-fertilizer application rates and alternative application regimes in the Cértima catchment
Joao Rocha, Peter c. Roebeling, Henrique Alves, Sara Fonseca, Maria Luz Rodriguez Blanco

Development of cost effective nitrogen management strategies: Scenario evaluation with the DSS FyrisCOST
Dennis Collentine, Holger Johnsson, Peter Larsson, Hampus Markensten, Mats Wallin

The impact of agricultural conservation management practices on simulated water balance and sediment loss in a Central Brazil catchment.
Michael Strauch, Albano Araújo, Jorge E.F.W. Lima, Franz Makeschin

Ecological services of constructed two-stage agricultural ditches
Jessica D Ambrosio, Jonathan Witter, Andy Ward, Jen Tank

II. Bacterial Monitoring, Source Identification and Control Practices
Location: Palace Hotel “Sala Japigia”
Moderator: Atef Hamdy (CIHAM)

Alternative Methods for Fecal Coliform Load Reductions in South Georgia Watersheds
D.D. Bosch, D.A. Chini, D. Sakura-Lemessy, M.P. Adams, G. Vellidis

Particle Association of Waterborne Escherichia coli in an Agricultural Watershed
Greg Piorkowski, Rob Jamieson, Greg Bezanson, Lisbeth Truelstrup-Hansen, Chris Yost

Cyanobacteria recent blooms in the Occhito reservoir (Puglia, Italy): results from three-years monitoring.

III. Effects of Climate Change on Water Resources and Water Quality
Location: Palace Hotel “Sala Messapia”
Moderator: Michele Vurro (IRSA)

European scenario studies on future in-stream nutrient concentrations
Klara Reder, Ilona Barlund, Anja Vob, Ellen Teichert, Richard Williams, Olli Malve, Martina Florke

Future scenarios for environmental flows in a large semi-natural river basin in Poland: A case study with the SWAT model
Piniewski M, Okruszko T, Acreman M C

Impact of global warming on Vanderkloof dam catchment
Josiah Adeyemo, Oluwatosin Olofinoye

3:00 - 3:20 PM BREAK
3:20 - 5:00PM CONCURRENT SESSIONS

IV. Data Collection to Support Water Quality/Quantity Development
Location: Palace Hotel “Sala degli Specchi”
Moderator: Saied Mostaghimi (Virginia Tech)

Challenges in Evaluating the Impact of Management Practices on Nitrogen Losses at Watershed Scale
Saied Mostaghimi, Sanjay Shukla

Statistical behaviour of load estimators based on routine monthly data series
Maria Angeles Lorenzo, Daniel Isidoro, Dolores Quilez

Data Collection for GIS-based Landscape-scale River Habitat and Stream Bank Mapping for Tennessee River Systems
Ayers Paul, Ken Swinson, Brett Connell, Bryan McConkey, J.R. Candlish, Chanci King, Matt Ellison

Assessment of surface waters quality in the southern Italy: monitoring of macroinvertebrates in the Apulian water courses
L. Martino, M. Blonda, B. Cudillo, M. Marrese, R. Petruzzelli

V. Pollution Control/Management Practices for Point and Nonpoint Sources
Location: Palace Hotel “Sala Japigia”
Moderator: David Bosch (USDA-ARS SEWRL)

Mitigation of diffuse sources related to pesticide application: the topps-provadis project
Paolo Balsari, Paolo Marucco, Manfred Roettele, Aldo Ferrero

Assessment of surface waters quality in the southern Italy: monitoring of fish fauna in the Apulian water courses
Costantino G., Bottinelli G., Ungaro N., Pastorelli A.M., De Gioia M., Cascione D., Battista D., Maielaro S., Ricci P., Di Festa T.

Groundwater Conservation Against Lake Brine Invasion by Means of New Technology of Neutral Underground Barrier
M. H. Davoudi, M. Jafari B

A first evaluation of the application of Water Framework Directive in the Puglia Region (Italy): the case of the Transitional Water Bodies in the Puglia region
E. Barbone, A. Porfido, N. Ungaro, A. Bottalico, A. Pastorelli, V. Perrino, M. Blonda, M. Vadrucci.
VI. Emerging Tools in Water Quality Analysis
Location: Palace Hotel “Sala Messapia”
Moderator: Ali Saleh (TIAER)

The Nutrient Tracking Tool - An Emerging Tool for Resource Analysis and Nutrient Trading
Ali Saleh, Shaun P McKinney, Harbans Lal, Christoph Gross, Joseph Bagdon

Use of CEEOT modeling system for cost-effective targeting and evaluation of environmental pollutants
Ali Saleh, Edward Osei, Oscar Gallego

Maryland Nutrient Trading Tool: Estimating creditable on-farm nutrient reductions
Mindy Selman, Susan Payne, Ali Saleh, Sara Walker

Multipurpose Technical Cadastre Tools for Water Resources Management
Gonzalez Rafael, Bley Cicero, Mariani Leidian

5:00 - 6:30 PM: *Poster Presentation. See page 14
Drinks served (Cash Bar)

Tuesday, May 29, 2012

8:00AM - 5:00PM REGISTRATION OPENS
Palace Hotel Lobby

8:20 - 10:00AM CONCURRENT SESSIONS

VII. Field and Watershed Scale Modeling
Location: Palace Hotel “Sala degli Specchi”
Moderator: Ali Saleh (TIAER)

A Procedure for Linking Watershed Models and Lake Models Together
Brian J. Watson, PE, PH, Jeremy R. Wyss

Application of SWAT for modeling management scenarios in a large lowland watershed in Poland
Ignacy Kardel, Mikolaj Piniewski, Marek Gielczewski

Moving from “Corine Landcover “to “Habitat Map” in Apulia Region: consequences for Watershed management
P. Lavarra, V. Laghezza, M. De Santis, E. Barbone, V. Perrino, M. Blonda

Application of the SWAT model to support feedstock production of biofuels in Hawaii
Jaehak Jeong, Jeff G. Arnold, Charles A. Jones, Raghavan Srinivasan, Mae Nakahata

VIII. Watershed Implementation Planning
Location: Palace Hotel “Sala Japigia”
Moderator: Ernest W. Tollner (University of Georgia)
Managing Phosphorus enrichment in Watersheds with high levels of livestock and poultry production
Lawrence Risse

Community decisions (Community decision support for integrated, on-the-ground nutrient reduction strategies)
Mary Leigh Wolfe, Javier Osorio, James Pease, Darrell Bosch, Christopher Zobel

An Integrated modeling approach for evaluation of on-site wastewater system
Phosphorus loading in rural Nova Scotia watersheds

GIS Techniques used for assessment of groundwater potential zones in Yeral River basin, western Maharashtra, India
Zende A.M, R. Nagarajan

IX. Economic Implications of Water Quality/Quantity OR Political and Social Ramifications

Factors conditioning the adoption of water conserving techniques in Valencia, Spain
Ortega M. V, Garcia-Molla M, Palau-Salvador G, Avellá L.

Pricing policies in managing water resources in agriculture: an application of contract theory to unmetered water
Francesco Gallo, Davide Viaggi, Meri Raggi.

Educating local communities for Integrated Water Resource Management using SPED Model
Eranki L N Kiran, A. Siva Sena Reddy

Application of Analytic Hierarchy Process to Prioritize the Factors Influencing Farmers’ Decision on Adoption of Soil Conservation Practices on Agricultural Watershed Areas in Okinawa, Japan
Kazuhito Sakai, Kensuke Okada

10:00 - 10:20AM BREAK
10:20 - 12:00PM CONCURRENT SESSION

X. Data Collection to Support Water Quality/Quantity Development

Analysis of Pesticide Application and Stream Water Quality Using Long-Term Data at County Level for Southern Ontario
Syed I. Ahmed, Ramesh Rudra, Shadi Dayyani, Pradeep Goel, Bahram Gharabaghi

Effect of vegetation and seasons on the water content of soil under climatic conditions of the Atlantic Forest in Southern Brazil
Rafael Matias Feltrin, Joao Batista Dias de Paiva, Eloiza Maria Cauduro Dias de Paiva, Vanessa Sari, Lariane Schlosser Brites

Consideration of hydrology, hydraulics, and stream morphology to effectively meet state and national water quality standards
Jessica D’Ambrosio, Andy Ward, Jonathan Witter

An Instantaneous Unit Hydrograph for Estimating Runoff from Windrow Composting Pads
Owen J. Duncan, Ernest W. Tollner, Herbert Ssegane

XI. Establishing Clean Sediment Water Quality/Quantity
Location: Palace Hotel “Sala Japigia”
Moderator: Atef Hamdy (CIHAM)

Water Classification and Quality analysis of Bukit Merah reservoir in Malaysia
Christopher O. Akinbile, Mohd Suffian Yusoff, Siti Hidayah Abu Talib, Zorkeflee Abu Hasan, A. M.M. Haque, U. B. Samsudin

Construction site sediment control modeling
B. J. Barfield, S. Patil, N. Bhadbhade, D. Storm, J. Vogel, S.L. Harp

Hydrologic and sediment transport in complex Mediterranean catchment
C. Gamvroudis, N. P. Nikolaidis, N. Karalemas, V. Papadoulakis, O. Tzoraki

Fate and Transport of Metribuzin in Soil Irrigated with Poor Quality Irrigation Waters
Eman Elsayed, Shiv Prasher

XII. Impact of Extreme Weather Conditions for Water Quality/Quantity
Location: Palace Hotel “Sala Messapia”
Moderator: Michele Vurro (IRSA)

Predictability of annual riverine loads based on high flow event loads in the Great Lakes region
Siddhartha Verma, Richard Cooke, Momcilo Markus

Trends in streamflow in the Ibicuí river basin - influence of rice crop irrigation.
Eloiza Maria Cauduro Dias de Paiva, Conrad D. Heatwole, Joao Batista Dias de Paiva, Rodrigo Cauduro Dias de Paiva

Land use and climate change impacts on surface water quality in an agricultural mesoscale watershed in Bavaria
Mehdi, B.B, Lehner B, Gombault C, Scholtes, J., Ferber F, Ludwig, R.

Impact of climate change on soil moisture condition in Nova Scotia
Raheleh Malekian, Robert Gordon, Ali Madani, Seyyed Ebrahim Hashemi

12:00 - 1:20PM Lunch (provided)
1:20 - 3:00PM CONCURRENT SESSION
**XIII. Agricultural BMP Effectiveness**  
Location: Palace Hotel “Sala degli Specchi”  
Moderator: Mark R. Walbridge (USDA-ARS)

Thomas Brook 2012: Surface Water Quality Observations from 10 years for a rural watershed in Nova Scotia, Canada  
Dale Hebb, Rob Jamieson, Rob Gordon, Beata Lees

Effect of Agricultural Activities on Groundwater Resources Quantitative and Qualitative Characteristics (A Case study: Khodabande plain in Zanjan-Iran)  
Ojaghlou H, Ojaghlou F, Sohrabi T, Dezvare A

Plot scale experiment of agricultural NPS reduction assessment for non-irrigated cropland  
Kim Sung Jae, Kim Sung Min, Jang Jeong Ryeol

Evaluation of BMPs Scenarios for minimizing phosphorus and sediments transport in sprinkler irrigation system  
Ahmed Skhiri, Farida Dechmi

**XIV. Emerging Problems of New Water Quality/Quantity Case Studies**  
Location: Palace Hotel “Sala Japigia”  
Moderator: Faycal Bouaroui (EC JRC)

Watershed-Scale Impact of Land-use changes for Bioenergy Production  
David D. Bosch, Jeff G. Arnold, James R. Kiniry, George Vellidis, Puneet Srivastava

Spatio-temporal variability in stream flow status: Candelaro river case study (Italy)  
A.M. De Girolamo, F. Gallart, A. Lo Porto

Assessing the impact of hydraulic fracturing on water resources in the Fayetteville Shale Area (Arkansas, USA)  
A. Abouabdillah, M. Di Luzio, J. Cothren, M. Williamson

Assessment of surface waters quality in the southern Italy: monitoring of fish fauna in the Apulian transitional waters  
A.Porfido, E. Barbone, N. Ungaro, A. Pastorelli, V. Perrino, M. Blonda.

**XV. Watershed Management in Developing Countries**  
Location: Palace Hotel “Sala Messapia”  
Moderator: Fedro Zazueta (UFIT)

Effect of Spatial Resolution on Watershed Characteristics and the AGNPS Model Hydrologic Simulations  
Ramadhar Singh, B. C. Mal, K.N. Tiwari

Point and Diffuse Sources of Pollution and Surface Water Quality in Marmara Basin, Turkey  
Selma Ç. Ayaz, Özgür Aktaş, Sönmez Daglı, Elif Atasoy Aytis, Lütfi Akça.

Use of Morphological Characteristics for Multi-Criteria Evaluation through Fuzzy Analytical Hierarchy Process for Prioritization of Watersheds
P. D. Aher, J. Adinarayana, S. D. Gorantiwar

Hillslope Soil and Nutrient Loss Quantification from Run-off Plots of Different Soil Cover
Jefffrey Lloyd R Bareng

3:00 - 3:20PM BREAK
3:20 - 5:00PM CONCURRENT SESSION

XVI. Performance and Validation of Models for Water Quality/Quantity
Location: Palace Hotel “Sala degli Specchi”
Moderator: Antonio Lo Porto (IRSA-CNR)

Defining “Typical” Rainfall for Water Quality Modeling
J.C. Hayes, B. J. Barfield, S.L. Harp

Prediction of soil and nutrient losses on Chianti vineyard with SWAT model
Napoli M, Orlandini S, Grifoni D, Zanchi C

Using SWAT to Predict Pre- and Post-Development Hydrologic Regimes
Roger Glick, Leila Gosselink

The SID&GRID project: developing GIS embedded watershed modeling
Borsi I, Rossetto R, Schifani C

XVII. Measuring Success – Post-Implementation Monitoring
Location: Palace Hotel “Sala Japigia”
Moderator: Fedro Zazueta (UFIT)

Spatio-Temporal patterns in soil water content time series: Influence of the time series length and precipitation events
J. L. Arumí & M. Lillo

Dissemination and uptake of EC Framework Programme water research results
Thomas Kerry

Simulating the hydrologic effects of checkdams in the Chelchay watershed using HEC-HMS model
Najafinejad ali, Yavarzadeh Mohammad

A Real-Time Simulation-Optimization Model for Operation of Reservoirs during Droughts
Majid Delavar, Saeed Morid, Mahnoush Moghadasi

XVIII. Solutions for Increasing Stakeholder Involvement in the Water Quality/Quantity Process
Location: Palace Hotel “Sala Messapia”
Moderator: Nikos Nikolaidis (Technical University Crete)

Bioretention Demonstration Project for Seaside Village in Bridgeport, Connecticut
Steven Trinkaus

Creating a Stormwater Park in the City Meadow of Norfolk, Connecticut
Steven Trinkaus

Spatial Distribution and Variation OF Borehole Water Quality With Depth In Uyo Municipality, Nigeria
Obot E. Essien, E D. Bassey

Lake Chad Restoration:Communities Attitude and Expectations
Ajibike Adeyemo, Lars Ribbe, Sabine Shuelter

6:30 - 8:30PM Dinner (provided)

Wednesday, May 30, 2012

8:00AM - 12:00PM
REGISTRATION OPENS
Palace Hotel Lobby

8:20AM - 10:00AM CONCURRENT SESSIONS

XIX. Watershed Implementation Planning
Location: Palace Hotel Sala degli Specchi”
Moderator: Aziz Abouabdillah (Texas AgriLife)

A Framework for Developing a Sustainable Watershed Management Plan
S. Mohan

Soil Loss Minimization through Land Use Optimization
Davood Nikkami, Hadi Chamheidar, Mohammad Hossein Mahdian, Ebrahim Pazira

Holistic Approach For Sustainable Development Of Lake Using Satellite Remote Sensing and GIS
Kamal Narain Joshi

Assessment of surface waters quality in the southern Italy: monitoring of diatoms in the Apulian water courses
L. Martino, M. Blonda, B. Cudillo, R. Petruzzelli

XX. Pollution Control/Management Practices for Point and Nonpoint Sources
Location: Palace Hotel “Sala Japigia”
Moderator: David Bosch (USDA-ARS SEWRL)

Assessment of surface waters quality in the southern Italy: monitoring of phytoplankton in the Apulian artificial lakes.

Multivariate Statistical Methods and Neural Networks for the identification of
pollution sources and classification of the Apulia region ground waters
P. Lelpo, D. Cassano, A. Lopez, G. Pappagallo, V.F. Uricchio, L. Trizio, G. De Gennaro

Effect of generated organic wastes on insitu soils’ physico-chemical, heavy-metal and microbial properties at municipality animal park/market, Uyo, Nigeria
O. E. Essien, E. E. Eshiett, E. F. Akai

XXI. Field and Watershed Scale Modeling
Location: Palace Hotel “Sala Messapia”
Moderator: Antonio Lo Porto (IRSA-CNR)

Modeling the Impacts of Climate Change on Nitrogen Removal in a Small Agricultural River
Michael Rode

Investigation of methodologies for up-scaling SWAT model results
Bouraoui Faycal, Paglieri Liliana

Geo-spatial analysis of the nitrate contamination of groundwater from diffuse sources
M. C. Trifu, V. Daradici, D. Mihaiescu, I. Calciu

Water quality standards of fluoride contaminated water: a case study from India
S.K. Sharma

10:00 - 10:20AM BREAK
10:20 - 12:00AM CONCURRENT SESSIONS

XXII. Performance and Validation of Models for Water Quality/Quantity
Location: Palace Hotel “Sala degli Specchi”
Moderator: Aziz Abouabdillah (Texas AgriLife)

Sensitivity of Modeled Watershed Attributes and Hydrological Outputs to DEM Spatial Resolution
Goulden T, Jamieson R, Hopkinson C, Hebb D

Modeling runoff with AnnAGNPS model in a small agricultural catchment, in Mediterranean environment
Duarte A. C, L. Mateos, E. Fereres

Simulating spatiotemporal distribution of soil water content in a drip-irrigated maize field using HYDRUS 2D
Fatemeh Karandish, Seyed Majid Mirlatifi, Ali Shahnazari, Fariborz Abbasi, Mehdi Gheisari

XXIII. Wetlands, Stream and River Restoration, Biomonitoring and Land Use Impacts on Downstream Water Bodies
Location: Palace Hotel “Sala Japigia”
Moderator: Faycal Bouaroui (EC JRC)
Long-term Monitoring of Stream Restoration Success at the Stream Research, Education, and Management (STREAM) Laboratory, Virginia Tech, USA
Theresa Wynn Thompson, W. Cully Hession, Durelle Scott, Brian Benham, Leigh-Anne Krometis, Jessie Lutz, Laura Teany, Gene Yagow

Modeling Small Reservoirs to Estimate Overflow and Groundwater Recharge in the Great Plains

The results of eight years of restoration the Plawnowice reservoir by hypolimnetic withdrawal
Maciej Kostecki, Jan Suschka

Evaluation of water quality and demand for wetland restoration/creation within the Nate catchment
Dirk Vrebos

XXIV. Ground water and nutrients
Location: Palace Hotel “Sala Messapia”
Moderator: Ernest W. Tollner (University of Georgia)

Scale effects on the simulation of hydrological processes.
Margherita Di Leo, Salvatore Manfreda, Mauro Fiorentino, Vito Iacobellis.

Evaluate and Mapping Groundwater Quality using Geostatistics for Sustainable Land Management in Darb El-Arbaeen, South Western Desert, Egypt
Omran El-Sayed Ewis, Selmy Salman

Baselines, Measurement and Verification: Universally, BMP #1
Thomas A. Reynolds, E. Ray Bigler, CPAg

Monitoring of Groundwater Quality of Andimeshk Plain Using DRASTIC and GIS
Kolahchi Abdeh

12:00PM - 2:00PM LUNCH AND CLOSING CEREMONY:
Location: Palace Hotel “Sala degli Specchi”

POSTER SESSION

Monday, May 28, 2012

5:00 - 6:30 PM Poster Presentation
Location: TBA
Moderator: Ali M. Sadeghi

Poster #  Title and Authors
1  Emergy evaluation of different management applied to watersheds of the caatinga biome
Investigation of Date Palm Leaf Performance as a Bioreactor in Nitrate Removal of Subsurface Drainage Water
Seyyed Ebrahim Hashemi Garmdareh, Manouchehr Heidarpour, Behrouz Mostafazadeh-Fard

Effect of ferrous ion on ammonium adsorption on the albic black soil in Sanjiang Plain in northeastern China
Chen Yiting, Cheng Hongguang, Pu Xiao, Lin Chunye

Influence of soil physical properties on SWAT catchment model calibration results
Matjaž Glavan, Marina Pintar

Evapotranspiration Process as Affected by Weather, Irrigation Method, and salinity
Kamal Hossny Amer

A survey of underground water level sway variations under different climate conditions in Neishabour basin of Iran
Dezvareh Ghorbanali, Naderianfard Mohamad, Ansari Hossein

The UNESCO ecohydrology demosite Kielstau catchment – sustainable water resources management and education in rural areas
N. Fohrer, B. Schmalz

Evaluation of the Drip Irrigation Clogging under Egyptian Conditions
M.A. Rashad, M.W.M. Elwan, K.E. Abd El-Hamed, S.A.M. Abd El-Azeem

Soil erosion on different spacial scales for the natural conditions of the caatinga biome in Brazil
Julio Cesar N. dos Santos, Eunice M. de Andrade, Helba A. Q. Palácio, José R. Araújo Neto, José Ailton S. Filho

Modeling Flow Field in Freshwater Lake under Different Construction Scheme of High-Speed Railway Bridge
Hang Chen, Yongsheng Fu, Larry C Brown

Evaluating the capability of HEC-HMS model in Lumped and Distributed simulation of flood hydrograph and determining the flood intensity of Damanand sub-basins, Iran
Fatemeh Karandish, Nasir Roushenas

Scenarios simulation of the runoff response for a peri-urban watershed in the Atlantic Forest Biome, Southern Brazil
Fábio Alex Beling, João Batista Dias de Paiva, Eloiza Maria Cauduro Dias de Paiva, Conrad D. Heatwole

Hydrologic Enforcement of LiDAR for Targeted Conservation
Brian Gelder

Water Yield and Soil Erosion Prediction on Croplands Using WEPP Model (A Model
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**TOURS**

THURSDAY (all day) TECHNICAL TOURS
Daily NON-TECHNICAL TOURS (Please see the Conference staff at the registration desk)