Technical Program

Saturday, February 20, 2010

7:30AM-5:00PM  REGISTRATION OPENS

8:30AM-5:00PM  CPD #1 SWAT Workshop
Location: TBA
CPD #3 Water Supply, Pond Design and Levee Pond Economic
Location: TBA

Sunday, February 21, 2010

7:30AM -5:00PM  REGISTRATION OPENS

8:30AM-5:00PM  CPD #3 CEEOT Workshop
Location: TBA
CPD #4 Field Tour of EARTH Wetlands Project—Function
of Small Natural Wetlands in the Humid Tropics
Location: TBA

8:30AM-12:00PM  CPD #5 Agricultural Landscapes as Production Areas
for Plentiful, High Quality Water
Location: TBA

5:00PM-7:00PM  WELCOME RECEPTION / DINNER
Location: TBA

Monday, February 22, 2010

8:30AM-10:00AM  OPENING CEREMONY
10:00AM-10:30AM BREAK
10:30AM-12:00PM GENERAL SESSION
12:00PM-1:30PM  LUNCH (Provided)
Location: TBA

Monday, February 22, 2010

1:45PM-3:00PM  CONCURRENT SESSIONS

I. Bacterial Monitoring, Source Identification and Control Practices—Part 1
Moderator:
A Review of Modeling related Microbial Source Tracking Applications in
Watershed Management
Brian Benham, Theo Dillaha, Gene Yagow,

Re-suspension of E. coli from direct fecal deposits in streams
Michelle Soupir, Rachel McDaniel, and Chris Rehmann

Phosphorus, Escherichia coli and Suspended Solids Reduction from Agricultural Runoff via Steel Slag Filtration
A. Drizo, E. Twohig

II. Field and Watershed Scale Modeling (BMP Evaluation)
Moderator:

Assessment of Riparian Buffer Impacts with the Little River Watershed in Georgia USA with the SWAT Model
D.D. Bosch, J. Cho, R.R. Lowrance, G. Vellidis, T.C. Stickland

Measuring and modeling water balance, erosion and hydrological services in a coffee agro forestry watershed of Costa Rica

Use of CEEOT Modeling System for Cost-effective Targeting and Evaluation Of Environmental Pollutants
Saleh A., E. Osei, and O Gallego

III. Emerging Tools in Water Quality Analysis – Part 1
Moderator:

AQUARIUS: A Decision Support System for Aquaculture
Conte, F. S., and Ahmadi, A.

Effects of UV light disinfection on tetracycline resistant genes in wastewater treatment plants
Hannah Childress, R. Karthikeyan

Effects of ionic strength on MS2 bacteriophages behavior: implications on the assessment of virus retention by ultra filtration membranes.
Aurelie Furiga, Gwenaelle Pierre, Mathieu Berge, Marie Glories, Pierre Aimar, Christel Causerand and Christine Roques

IV. Emerging Problems – New Water Quality/Quantity Case Studies
Moderator:

Anthropogenic Influence on Tetracycline Resistance in a Subtropical Watershed
B. A. Sullivan and R. Karthikeyan

Criteria to Prioritize Intervention Areas in Watersheds: The Experience of the Program Focuencas II
L. Benegas, J. Leon

Aerobic Method of Rice Production: A Promising Cropping System for Improving
V. Use of Computer Models for Watershed Planning

Moderator:

Use of a watershed model in the development of a River Basin Management Plan in a catchment with limited data
G. Santese, A.M. De Girolamo, A. Lo Porto

Herbicide Sampling in Watersheds: When Enough is Enough
Elizabeth Pappas and Chi-hua Huang

Modeling impacts of landuse and vegetation on runoff round Water Level and Deep Percolation watershed, Mexico
Edward A. Ellis, Jose Luis Alanis Méndez

VI. Emerging Tools in Water Quality Analysis – Part 2

Moderator:


GIS Land Use Allocation Model Based on Water Quality Criteria
Christian Villalta Calderon

HIDROESTA, Hydrological Calculus and Statistical Software Applied for Hydrology
M. Villon

VII. Bacterial Monitoring, Source Identification and Control Practices – Part 2

Moderator:

Fluctuation of Vegetable Irrigation Water Quality Sourced from the Colorado River, USA
J.M. Fonseca, S.K. Fallon, C.A. Sanchez, K.D. Nolte

Variations of Indicator Bacteria in a Large Urban Watershed
A. Mark Ibekwe

Diversidad Bacteriana En El Perífiton De Raíces De Eichhornia sp, Pistia sp. y Azolla sp., En Un Humedal Artificial Del Caribe De Costa Rica
Tejada, J., Rojas, J., and Montero, V

VIII. Emerging Problems – New Water Quality/Quantity
Case Studies

Moderator:

Lysimeter Experiments to Investigate the Fate and Transport of Vinasse Application in Tropical Soils

Pesticide Use and Transport Pathways within a Coastal Watershed in Southeastern Puerto Rico
Thomas L. Potter, Angel Dieppa, David Whitall, David D. Bosch, Timothy C. Strickland, and Jacqueline Vega

Small-Scale Desalination Plants for Growing Crops: An Experience in the United Arab Emirates
Nurul Akhand, Mohamed AlMulla, Yousif Hedar and Basel AlAraj

4:45-6:30 POSTER SESSION
6:30-8:30 Dinner (provided)

Tuesday, February 23, 2010

8:30-10:10AM CONCURRENT SESSIONS

IX. Watershed Management
Moderator:

PCJ River Basins Water Availability Caused by Water Diversions Scenarios to Supply SÃO Paulo Metropolitan Area
Rodrigo M. Sánchez-Román, Alba M. G. Orellana González, Marcos V. Folegatti

PEMSEA Partnership for Watershed Management in East Asia
Gene Yagow, Karen Kline, Dave Nemazie, Bob Summers, and Brian Benham

LID Decision-Making to Evaluate Impacts of BMP Selection
C.V. Privette, III, D. Willis, M. Huber

Institutional determinants of performance of drinking water community organizations in rural areas of Costa Rica: A comparative case studies analysis.
Róger Madrigal; Francisco Alpízar; Achim Schlüter

X. Performance and Validation of Models for Water Quality/Quantity
Moderator:

Distributed Modeling Water Quality in Cypress Creek Water, Houston, Texas
Teague, A., P. Bedient

A Review of HSPF Evaluations on the Southern United States and Puerto Rico
Jairo N. Diaz-Ramirez, William H. McAnally, and James L. Martin

Development and Application of a Modified NTT Tool for Water Quality Trading

**Refinement, Validation and Implementation of SWAT Model for Central Texas TMDL**
Houser, James B. (TIAER), Ali Saleh (TIAER), and Larry M. Hauck (TIAER)

**XI. Watershed management in developing countries**
Moderator:

*Integrated water resources management in a Micro-basin Scale*
Astorga Espalda, Y.

*Determinant Factors of Soil Erosion Prediction Using Remote Sensing in Small Tropical Area*
Adhi Wibowo, Ishak H Ismullah, Bobby S Dipokusumo, Ketut Wikantika

*Changes in land use patterns in upland watersheds of Eastern Luangwa Valley, Zambia*
Conrad Heatwole, Younggu Her, Victor Nyirongo

*Finding means to promote the integrated management of natural resources in the sub watershed of the Chimbo River, Ecuador*
Víctor Barrera, Elena Cruz, Jeffrey Alwang, Luis Escudero, Carlos Monar

**XII. Pollution Control/Management Practices for Point and Nonpoint Sources – Part 1**
Moderator:

*Biological Treatment Processes to Treat Water Contaminated with Emerging Agriculturally Relevant Compounds*
M. A. Gallagher, R. Karthikeyan

*Reducing Phosphorus Runoff from Biosolids with Water Treatment Residuals*
P.A. Moore, Jr., J.P. de Koff, R.D. Williams, R. Young, and P.J.A. Kleinman

*Depuración de Aguas Residuales Pecuarias con Humedales Construidos, en el Caribe de Costa Rica*
Tejada, J., and Breve, M.

*Economical Anaerobic Digestion of CAFO Animal Waste*
M.J. Germane, T. Menke

10:10-10:40AM BREAK
10:40-12:00PM CONCURRENT SESSION

**XIII. Payments for Environmental/Hydrologic Services programs**
Moderator:

*Water and Payment of Environmental Services in Costa Rica*
Ricardo O. Russo, EARTH University, Costa Rica

*Experiencias prácticas de mecanismos de compensación por los servicios*
hidricos provenientes del bosque en Centro América y El Caribe
Boscolo Marco; Eckelmann, Claus; Madrigal Roger; Mendez Boris; Paveri Manuel; Zapata, Jhony

Synergy between Land Conservation & Water Quality Trading Programs
Todd Doley, EPA, Washington, DC, USA

XIV. Field and Watershed Scale Modeling (Nutrients)
Moderator:

Evaluation of Nutrient Modeling by SWAT under Tropical Conditions
Priscilla Basílio Cardoso Barros Trindade, Luis Felipe Nunes Coutinho, Marco Aurélio Costa Caiado, and Conrad Heatwole

Coupling nitrogen transformation rates with simple numerical models to determine nitrogen attenuation in soil treatment units
Maria B. Tucholke, Mengistu Geza, Assaf Wunch, Kathryn Lowe, John McCray

Modeling Nutrients in the Rio Mannu River Basin: Scenario Analysis
Anna Maria De Girolamo, Antonio Lo Porto

XV. Field and Watershed Scale Modeling (Sediment)
Moderator:

Riparian Sediment Delivery Ratio Based on Stiff Diagrams and Artificial Neural Networks
John McCray, Colorado School of Mines, Golden

Channel Erosion Estimates for Urbanizing Watersheds: Submerged Jet Testing and SWAT-DEG
Peter M. Allen, Jeff G. Arnold, Stephanie Capello, Dave Coffman

Experimental Study of Levee Breach Erosion
W. F. Silva-Araya, L. Alva-Solari, M. H. Chaudhry

XVI. Watershed Planning – Part 1
Moderator:

Linked Models for Evaluating the Effect of Watershed Phosphorus on Lake Whatcom Dissolved Oxygen
P. Pickett, S. Hood

Equity and Transparency: General Principles of the Success of Collective River and Ground Water Management in Valencia, Southeast Spain
Trawick P., Palau-Salvador G. and Ortega M. V.

Watershed Protection Plan Development in Rural Texas Watersheds Using Spatial Tools
K.E. McKee, R. Karthikeyan, P.K. Smith

12:00-1:30 Lunch (provided)
1:45-3:00 CONCURRENT SESSION

**XVII. Watershed Planning – Part 2**
Moderator:

Developing watershed protection plans for rural watersheds: Integrating science, policy, and stakeholders

Innovative economic analyses for management and restoration of the low lying tide dominated watershed environment for agricultural development
Md. Monirul Islam, Prof. Bryan W Karney

Multi-Objective Optimization Approach for Land Use Allocation Based on Water Quality Criteria
Christian Villalta Calderón, Luis Pérez-Alegria

**XVIII. Bio Remediation Systems for Agriculture – Part 1**
Moderator:

Characterization of the Microbial Ecology in Denitrifying Biofilters
J. Malia Andrus, Luis F. Rodriguez, R.A.C. Cooke, Yuanhui Zhang, Angela D. Kent, and Julie Zilles

Bio remediation system for non point sources
Cesar Arreaga & Hayro García

Relating Hydrologic Metrics to In-Stream Aquatic Life in Semi-Arid Areas
R.H. Glick, L. Gosselink, C. Herrington, B. Bai

**XIX. Data Collection to support Water Quality/Quantity development - Part 1**
Moderator:

Proposed Standard for Automatic Calculation of Rainfall Erosivity
M. Reyes, H. Suda, M. Brooks, and R. Boyles.

Water Balance, Seasonal Hydroperiod Variation and Residence Time of a Small Natural Freshwater Wetlands in the Humid Tropics in Costa Rica
Rafael Muñoz Carpena, Manon Bachelin, David Kaplan

Gleaming Information from Multiple Data Sources to Determine Watershed Water Quality Conditions
D.D. Snethen, T. Stiles, D. Devlin, B. Hargrove

**XX. Field and Watershed Scale Modeling (General)**
Moderator:

New Developments in the SWAT Ecohydrology Model
Jeffrey G. Arnold, Philip W. Gassman, and Michael J. White
Numerical modeling of nitrogen transformations in soil treatment units
Assaf Wunsch, John McCray, Mengistu Geza, Mia Tucholke

Performance and Evaluation of Multisensor Precipitation Estimation Algorithm
Using a High Density Rain Gauge Network and Hydrologic Simulation
Alejandra M. Rojas González, Eric W. Harmsen, Sandra Cruz Pol

3:00-3:30PM BREAK

3:30-4:45PM CONCURRENT SESSION

**XXI. Education in water resources**

*Moderator:*

Horticultural Irrigation Project in El Salvador
Jeffrey Jones, Jan Boll, Erin Brooks

Children’s Participation in Evaluation of Bio-Indicators of Water Quality in Rural Communities
B. Kohlmann, R.O. Russo, J. Itzep and R. Solís

Gestion Patricipativa En La Implementation De Un Sistema De Pagos Por Servicios Ambientales En Una Cuenca
Ralf Schillinger; Natalia Giménez; Alejandra Cau Cattan

**XXII. Field and Watershed Scale Modeling (Soil Erosion)**

*Moderator:*

Estimation of soil erosion using USLE equation in Rio Pirris Watershed in Costa Rica
Govaere Georges, Aguilar Jose, Sergio

Estimation of Soil Erosion for Small Watershed Using the WEPP Model under Cagayan Valley Condition, Philippines
Jeoffrey Lloyd Bareng and Orlando Balderam and Larry M. Hauck

Study of soil erosion process in vegetable crops
Govaere Georges, Aguilar Jose

**XXIII. Water Quality/Quantity Collection to Support Water Quality Development-Part 1**

*Moderator:*

Data quality assurance in pressure transducer-based automatic water level monitoring
Dinku M. Endale, Dwight S. Fisher, Michael B. Jenkins, and Harry S. Schomberg

Potential Risk of Suspended Particulate Matter in Aquatic Ecosystems
Sandra M. Tirado, Ian G. Droppo, Lesley A. Warren, and Steven N. Liss
Water resources in the Republic of Armenia
Daniel Alberto Tardito, TIGRE, Buenos Aires, Argentina

XXIV. Bio Remediation Systems for Agriculture – Part 1
Moderator:

Bank filtration: Application in rural areas
Luis Romero Esquivel, Marcus Bruno Domingues Soares, Bruno Segalla Pizzolatti, Denise Conceição de Gois Santos Michelan, Maurício Luiz Sens

Performance Evaluation of Subsurface Bioreactors
Siddhartha Verma, Dr.Richard Cooke, and Gregory E. Goodwin

Vertical Subsurface Flow Constructed Wetland a Facility to Treat Waste-Water from the Banana Production
Karin Barz and Bert Kohlmann

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

Wednesday, February 24, 2010

8:30AM -10:10AM CONCURRENT SESSIONS

XXV. Pollution Control/Management Practices for Point and Nonpoint Sources – Part 2
Moderator:

Interaction of Rotavirus and Cryptosporidium parvum with Soil Particles and Vegetative Filter Strips
P. C. Davidson, D. J. Koch, P. K. Kalita, T. B. Kuhlenschmidt, and M. S. Kuhlenschmidt

Implementation of Best Management Practices for Atrazine Herbicide in the Little Arkansas River Watershed in the United States
Daniel Devlin, Philip L. Barnes, and Ron Graber

Nutrient and sediment losses in runoff from tropical soils amended with dairy manure sludge

Treatment of Nitrate-Contaminated Agricultural Water through Bioremediation
Bridget Cameron, Gregory Goodwin

XXVI. Performance and Validation of Models for Water Quality/Quantity
Moderator:

The Worldwide Use of the SWAT Model: Technological Drivers, Networking Impacts, Simulation Trends, and Potential Future Constraints
Jeff G. Arnold, Ragahavan Srinivasan, and Manuel Reyes
The USGS SPARROW model as a framework for phosphorus delivery in river basins of the Southeastern United States
Ana María García, Anne Hoos, Gerald McMahon

Evaluation of the Soil and Water Assessment in Vietnam, Indonesia and the Philippines
Reyes, M., N. Alibuyog, V. Ella, L. Nguyen Kim, R. Srinivasan, C. Heatwole, T. Dillaha, and M. Raimadoya

Filtration BMP Modeling for Water Quantity and Quality

XXVII. Watershed management in Developing Countries (General Issues)
Moderator:

Conservation agriculture and ecosystem services
T. A. Dillaha and K.M. Moore

Estimation of irrigation water conduction losses in four rivers of the Laja system in Central Chile
José Luis Arumí1; Diego Rivera; Alfonso Rougier; Ricardo Diaz

El manejo integral de cuencas en el Sur de Bolivia
Eduardo Panique

Water Policy Reforms in Central America: Implications and challenges for Governance and Watershed Management
Ingo G. Gentes, CATIE, Cartago, Costa Rica

XXVIII. Wetlands, stream and river restoration, Bio - Monitoring and land use impacts on downstream water bodies
Moderator:

Creating a financial return-on-investment for constructed treatment wetlands
Dawn Reinhold

Influence of buffer strip width, wildlife habitat functions, and protection of quality of depressional wetlands in Minnesota
Arika, C, Lenhart, C., Nieber, J., Titov, M., Brooks, K., Graeve, K

Multi-tracer field study in a small, natural wetland in the humid tropics of Costa Rica
Rafael Muñoz-Carpena

Rural roads and trails as a source of sediment: Preliminary results from the Alegre watershed in Eastern Brazil
Mariissa Duff, Dr. Conrad Heatwole, Dr. Marco Caiado

10:10-10:40AM BREAK
10:40AM-11:45PM CONCURRENT SESSIONS

XXIX. Field and Watershed Scale Modeling (Ground Water)
Moderator:

Assessment of groundwater recharge and water fluxes of the Guarani Aquifer System, Brazil
Jorge Luiz Rabelo; Edson Wendland

Linking the Watershed, River, and Floodplain: Modeling Groundwater in a Bald Cypress Swamp Impacted by Saltwater Intrusion
David Kaplan, Rafael Muñoz-Carpena, Axel Ritter

Field Scale Monitoring and Modeling of Crop Growth, Surface and Subsurface Flow, and Chemical Transport
Elizabeth A. Pappas, Douglas R. Smith

XXX. Effects of climate change on water resources and water quality
Moderator:

Effects of Climate Change on Hydrology and Nitrogen Transport in an Agricultural Watershed in a Cold Region Using DRAIN-WARMF Model
Shadi Dayyani, Shiv O. Prasher, Chandra A. Madramootoo, and Ali Madani

Impact of climate change on sustainability of water food systems in 21st century
Ramesh Kanwar

Modeling to Evaluate the Impact of Prevailing Climate Change on the Great Lakes Water Levels
Prof. Bryan W Karney, Elizabeth Panicker, Md. Monirul Islam

XXXI. Field and Watershed Scale Modeling (Case Study)
Moderator:

Modelling water-harvesting systems in a semi arid catchment (Merguellil-Tunisia)
A. Abouabdillah, M. White, J.G Arnold, A. Lo Porto

Natural flows obtained from a simplified model and the influence of rice irrigation in these flows
A.L.D. da Rosa, E.M.C.D. de Paiva

Classification of Water Resources in River Basins with Lack of Data, Case Study on South of Brasil
João Batista Dias de Paiva, Eloiza Maria Cauduro Dias de Paiva, Maria do Carmo Cauduro Gastaldini, Lorenza Oppa and Rodrigo Cauduro Dias de Paiva
12:00PM-2:00PM LUNCH AND CLOSING CEREMONY:
2:00PM-5:00PM CAMPUS TOURS

THURSDAY AND FRIDAY (all day) TECHNICAL TOURS

<table>
<thead>
<tr>
<th>Poster #</th>
<th>Title and Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cuantificación de Nitrógeno y Fósforo de un Humedal Construido que depura aguas residuales pecuarias, y su re-uso como fertilizante en el Caribe de Costa Rica Tejada, J., Rojas, J., and Montero, V</td>
</tr>
<tr>
<td>2.</td>
<td>Evaluation of Adjustment Environmental Contract to pig production in Pinhal River sub-basin Y.Julio C.P. Palhares; Magada R. Mulinari; Ricardo L. R. Steinmetz; Jaqueline B. Klein; Susana Muller</td>
</tr>
<tr>
<td>3.</td>
<td>Restoration of Livelihood through Watershed Management in the Southwest Coastal Region of Bangladesh Quasi Wadud Nawaz</td>
</tr>
<tr>
<td>4.</td>
<td>Development of FDA(Filter Disinfection Adsorption) System for Supplying Clean Irrigation Water and Convenience Waters to Farmers Kyung-Sook Choi, Kwang-Ya Lee, Hae-Do Kim, Min Hong, Jong-Hwa Son</td>
</tr>
<tr>
<td>5.</td>
<td>Assessing climate impacts on water resources through monitoring and modeling water balance in an Andean catchment in Andean catchment in Ancoraimes, Bolivia Quasi Wadud Nawaz</td>
</tr>
<tr>
<td>6.</td>
<td>Sediment control practices in sloping alpine fields in Korea Joongdae Choi, Dong-Su Kong, Cheol-Hee Won, Yong-Hun Choi, Kyong-Jae Lim</td>
</tr>
<tr>
<td>7.</td>
<td>Water treatment for rural areas by slow sand filtration Bruno Segalla Pizzolatti; Maurício Luiz Sens; Marcus Bruno Domingues Soares; Luis G Romero; Denise Conceição de Gois Santos Michelan</td>
</tr>
<tr>
<td>8.</td>
<td>Validating a Stream Flow Prediction Model for Ungauged Watersheds in Spain Vicente Guillén J., Otero Cabeza de Vaca D., Chávez J.L., García García A.I.</td>
</tr>
<tr>
<td>9.</td>
<td>Backwashed slow sand filtration: Application in rural areas Bruno Segalla Pizzolatti; Maurício Luiz Sens; Marcus Bruno Domingues Soares; Luis G Romero; Denise Conceição de Gois Santos Michelan</td>
</tr>
<tr>
<td>10.</td>
<td>Proper Disposal of Unwanted Medication Natalie J. Carroll</td>
</tr>
<tr>
<td>11.</td>
<td>Soil fertility in riparian zone of Quasi Wadud Nawaz</td>
</tr>
<tr>
<td>12.</td>
<td>Conservation Effects Quasi Wadud Nawaz</td>
</tr>
</tbody>
</table>
Pinhal Watershed, Concordia, Brasil

Julio C.P. Palhares; Juliano Corulli Corrêa,

Assessment on the on the Jobos Bay Puerto Rico Coastal Watershed
David D. Bosch, Tom Potter, R. Richard Lowrance, Robert Hubbard, Tim C. Strickland, Edwin Mas, Angel Dieppa, David Sotomayor, William Effland, Mark Walbridge, Mark Monaco

Validation of SWAT for a mixed watershed in Atlantic Canada
Hafiz Ahmad, Rob Jamieson, and Ali Madani

Photocatalytic disinfection of water using photocatalyzer immobilized in mortar and solar radiation
F De la Hoz; E.R. Bandala; J.L. Arumí; D. Rivera

Develop the conceptual modeling of the environmental management of a complex swine farm in the Central Valley of Chile.
Héctor Flores, José Luis Arumí, Diego Rivera, Octavio Lagos, Ali Saleh, David Lewis

Phoocatalytic disinfection of water using photocatalyzer immobilized in mortar and solar radiation

Design and Risk Assessment Tool for Vegetative Treatment Areas in Sloping Landscapes
Joshua W. Faulkner, Zachary Easton, Larry D. Geoehring, and Tammo Steenhuis

GLEAMS Evaluation In Potato Fields For Agricultural Nutrient Management In Central Bolivian Highlands
Sarah Walker, Conrad Heatwole, and Jaime Cossio

Development of Multiple Hydraulic Zones during Steady Unsaturated Wastewater Flow through Sandy Soils
M. Geza, J. McCray, K. Lowe, A. Wunsch

Participative Hydrological Monitoring of the Illangama and Del Rivers, Bolivar Province, Ecuador
Carlos Montufar, Conrad Heatwole, Victor Barerra

Using Remote sensing constructing Hydrological models in watershed without data in Venezuela
Francisco J. Lahoud

Effects of Climate Changes on Bangladesh Agriculture

Rural Egypt, Drinking Water and Human Development Index, a GIS

Using Remote sensing constructing Hydrological models in watershed without data in Venezuela

Role of Different Land Use
Rania Ramadan Mohamed

Correlation - The change over time between two phases 1996-2002 and 2003-2008

Effects of Climate Changes on Bangladesh Agriculture

Using Remote sensing constructing Hydrological models in watershed without data in Venezuela
Francisco J. Lahoud

Systems on Resource Degradation

Rania Ramadan Mohamed

Using Remote sensing constructing Hydrological models in watershed without data in Venezuela
Francisco J. Lahoud
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.</td>
<td>Integrated Watershed planning for water management in San Miguel Allende, Guanajuato, México</td>
<td>Lalitha, B.S. Devakumar, N. Jagannath, and Pandurangaiah, K.</td>
</tr>
<tr>
<td>28.</td>
<td>Modeling Cover Crop Effectiveness on Maryland’s Eastern Shore</td>
<td>Shaikh Tanveer Hossain and Kazi Monir Mosharof</td>
</tr>
<tr>
<td>29.</td>
<td>Spatial Distribution and Effects of Anthropogenic Pollution Sources on the Quality of IKPA River in Nigeria</td>
<td>Cantoral, E., Amador, A., Urbán G., Cordova, M. y L. Sanaphre</td>
</tr>
<tr>
<td>32.</td>
<td>Impact of livestock in the water quality of Pinhal River sub-basin, Santa Catarina-Brazil</td>
<td>Shaikh Tanveer Hossain and Kazi Monir Mosharof</td>
</tr>
<tr>
<td>33.</td>
<td>Spatial Distribution and Effects of Anthropogenic Pollution Sources on the Quality of IKPA River in Nigeria</td>
<td>Cantoral, E., Amador, A., Urbán G., Cordova, M. y L. Sanaphre</td>
</tr>
<tr>
<td>34.</td>
<td>Examining the Effects of Water Use Regulations on Agriculture in the São Francisco River Basin, Brazil: An Application of a Linked Hydro-Economic Model</td>
<td>YJulio C.P. Palhares; Magada R. Mulinari;Ricardo L. R. Steinmetz; Jaqueline B. Klein; Susana Muller, and Gustavo Plieski</td>
</tr>
</tbody>
</table>