

2011
SWAT

UNIVERSITY OF CASTILLA LA MANCHA
TOLEDO, SPAIN

*2011 International SWAT Conference
Agenda*

June 15-17, 2011



2011 SWAT

Conference Overview

Time	Wednesday, June 15	Thursday, June 16	Friday, June 17
8:00 - 10:15 a.m.	Inaugural Session (9:30 - 10:30 a.m.)	Session E1: Climate Change Applications Session E2: Sediment, Nutrients, and Carbons Session E3: Hydrology	Session H1: Sediment, Nutrients, and Carbons Session H2: Hydrology Session H3: Large Scale Applications
10:50 - 12:35 p.m.	Session A1: Large Scale Applications Session A2: Sensitivity Calibration & Uncertainty Session A3: Best Management Practices Session B1: Model Development Session B2: Environmental Applications Session B3: Landscape Processes and Landscape/River Continuum	Session F1: Model Development Session F2: International SWAT Applications Review Session F3: Urban Processes and Management Session G1: Large Scale Applications Session G2: Best Management Practices Session G3: Sensitivity, Calibration & Uncertainty	Session I1: Database & GIS Applications & Development Session I2: Climate Change Applications Session I3: Environmental Applications Session I4: Hydrology
12:35 - 1:40 p.m.	Session C1: Pesticide, Bacteria, Metals, & Pharmaceuticals Session C2: Hydrology Session C3: InStream Sediment & Pollutant Transport Session D1: Biofuel & Plant Growth Session D2: Climate Change Applications Session D3: Environmental Applications		
3:00 - 4:25 p.m.		*Poster Session (3:00 - 4:00 p.m.)	Closing Session & Discussion
4:45 - 5:50 p.m.	*Welcome Reception	*Outing & Dinner (6:00 - 9:00 p.m.)	

Wednesday, June 15, 2011



8:30 - 9:30 a.m.

PARTICIPANT CHECK-IN AND REGISTRATION
Building 37 - Room 0.01

9:30 - 10:30 a.m.

OPENING CEREMONY
Building 37 - Room 0.01

Moderator: Dr. José María Bodoque del Pozo
University of Castilla La Mancha, Spain

Welcome Address: Dr. José María Bodoque del Pozo, *University of Castilla La Mancha, Spain*

Keynote Speakers: **President**, *University of Castilla La Mancha, Spain*

Model Development: Dr. Jeffrey G. Arnold, *USDA - Agricultural Research Service, USA*

Closing: Dr. Raghavan Srinivasan, *Texas A&M University, USA*

10:30 - 10:50 a.m.

COFFEE BREAK AND GROUP PHOTO
Building 37 - Restaurant



Wednesday, June 15, 2011



10:50 a.m. - 12:35 p.m. SESSION A1 - LARGE SCALE APPLICATIONS
Building 37 - Room 0.08

Moderator: Indrajeet Chaubey
 Purdue University, USA

10:50 - 11:10 a.m.	Elham Rouholahnejad	<i>Water Resources Status in Danube River Basin</i>
11:10 - 11:30 a.m.	Benedikt Notter	<i>Estimating Ecosystem Service Provision for Future Management and Climate Change Scenarios for the Pangani Basin, East Africa</i>
11:30 - 11:50 a.m.	Hans Estrup Andersen	<i>Modelling Nutrient Loading of Danish Marine Waters</i>
11:50 - 12:10 p.m.	Liliana Pagliero	<i>SWAT Modelling at Pan European Scale: the Danube Basin Pilot Study</i>
12:10 - 12:30 p.m.	Christine Kuendig	<i>Impact of the Ratio Between Subbasins and Climate Stations on the Performance of SWAT in the Rhine Basin</i>
12:30 - 12:35 p.m.	<i>Discussion & Wrap Up</i>	

10:50 a.m. - 12:35 p.m. SESSION A2 - SENSITIVITY CALIBRATION & UNCERTAINTY
Building 37 - Room 0.09

Moderator: Ann van Griensven
 UNESCO-IHE, the Netherlands

10:50 - 11:10 a.m.	Martin Volk	<i>Changing Land Management Practices During Model Calibration and Evaluation Periods – Importance, Impact and Interpretation</i>
11:10 - 11:30 a.m.	Michael Strauch	<i>Using Precipitation Data Ensemble and Bayesian Model Averaging for Uncertainty Analysis in Hydrologic Modeling</i>
11:30 - 11:50 a.m.	Karim C. Abbaspour	<i>SWAT-CUP New Features: Parallel processing, Parameterization, Outlet Visualization</i>
11:50 - 12:10 p.m.	Hyunwoo Kang	<i>Evaluation of SWAT Auto-calibration using Diverse Efficiency Criteria</i>
12:10 - 12:30 p.m.	Hyung Kyung Joh	<i>The Uncertainty Analysis of SWAT Simulated Stream Flow and Water Quality Applied to Chungju Dam Watershed of South Korea</i>
12:30 - 12:35 p.m.	<i>Discussion & Wrap Up</i>	

10:50 a.m. - 12:35 p.m. SESSION A3 - BEST MANAGEMENT PRACTICES (BMPs)
Building 37 - Room 0.10

Moderator: C. Allan Jones
 Texas AgriLife Research, USA

10:50 - 11:10 a.m.	Aaron Mittelstet	<i>Field Scale Modeling to Estimate the Reduction in Phosphorus and Sediment using a Simplified GUI for SWAT</i>
11:10 - 11:30 a.m.	Britta Schmalz	<i>Effect of Best Management Practices on Water Quality in a Lowland Catchment</i>
11:30 - 11:50 a.m.	José Miguel Sanchez Perez	<i>Simulated Mitigation Measurements to Reduce Nitrate in Surface Water using SWAT Hydrological Modeling in an Agricultural Watershed, Southwest France</i>
11:50 - 12:10 p.m.	Hongguang Cheng	<i>Application of BMPs Design for Inshore Alluvial Plain River system in North Jiangsu, China</i>
12:10 - 12:30 p.m.	Jenny Sandberg	<i>The Impact of Land Management on Drinking Water Quality: A Water Industry Application, East of England</i>
12:30 - 12:35 p.m.	<i>Discussion & Wrap Up</i>	

Wednesday, June 15, 2011



12:35 p.m. - 1:40 p.m. **SESSION B1 - MODEL DEVELOPMENT**
Building 37 - Room 0.08

Moderator: Fred F. Hattermann
Potsdam Inst. for Climate Impact Research, Germany

12:35 - 12:55 p.m.	Stefan Liersch	<i>How to Integrate Wetland Processes in River Basin Modeling? A West African Case Study</i>
12:55 - 1:15 p.m.	Darren Ficklin	<i>Development and Application of a Hydroclimatological Stream Temperature Model within SWAT</i>
1:15 - 1:35 p.m.	Gordon Putz	<i>Soil Temperature Damping Depth in Boreal Plain Forest Stands and Clear Cuts: Comparison of Measured Depths versus Predicted based upon SWAT Algorithms</i>
1:35 - 1:40 p.m.	<i>Discussion & Wrap Up</i>	

12:35 p.m. - 2:00 p.m. **SESSION B2 - ENVIRONMENTAL APPLICATIONS**
Building 37 - Room 0.09

Moderator: Nicola Fohrer
Christian-Albrechts-University, Germany

12:35 - 12:55 p.m.	Julio Issao Kuwajima	<i>Challenges and Difficulties in Sediment Modeling Applied to Sedimentation Study of the Lobo Reservoir in Brazil</i>
12:55 - 1:15 p.m.	Raphael Benning	<i>Using Measurement Data on Water and Matter Fluxes in Small Homogeneous Mountainous Catchments for HRU-parameterization in SWAT</i>
1:15 - 1:35 p.m.	Jean-Marie Lescot	<i>Cost-Effectiveness Analysis for Controlling Water Pollution by Pesticides using SWAT and Bio-Economical Modeling</i>
1:35 - 1:55 p.m.	Itsasne Cerro	<i>Assessing the Pollutant Transport with SWAT model in an Agricultural Watershed Dominated by an Alluvial Aquifer</i>
1:55 - 2:00 p.m.	<i>Discussion & Wrap Up</i>	

12:35 p.m. - 1:40 p.m. **SESSION B3 - LANDSCAPE PROCESSES & LANDSCAPE/RIVER CONTINUUM**
Building 37 - Room 0.10

Moderator: Martin Volk
Helmholtz Centre for Environmental Research
Germany

12:35 - 12:55 p.m.	Dan Hawtree	<i>Assessing the Impact of Increased Cultivation of Woody Biomass for Energy Generation Purposes on Water and Matter Balances in Rural Catchments</i>
12:55 - 1:15 p.m.	Claire Baffaut	<i>Linking Edge-of-Field Results to Stream Flow and Water Quality: A Comparison Between APEX and SWAT</i>
1:15 - 1:35 p.m.	Carina Almeida	<i>SWAT LAI Calibration with Local LAI Measurements</i>
1:35 - 1:40 p.m.	<i>Discussion & Wrap Up</i>	

1:40 p.m. - 3:00 p.m. **LUNCH**
Building 37 - Restaurant

Wednesday, June 15, 2011



3:00 p.m. - 4:25 p.m. **SESSION C1 - PESTICIDES, BACTERIA, METALS
& PHARMACEUTICALS**
Building 37 - Room 0.08

Moderator: Virginia Jin
USDA - Agricultural Research Service, USA

3:00 - 3:20 p.m.	Laurie Boithias	<i>Modeling Pesticide Fluxes During Highflow Events in an Intensive Agricultural Catchment: the Save River (Southwestern France) Case Study</i>
3:20 - 3:40 p.m.	Kristin Brassett	<i>A Mass Balance Approach: Updating the SWAT Pesticide Module for Application to EMCONs</i>
3:40 - 4:00 p.m.	Nicola Fohrer	<i>Fate and Transport Modeling of the Herbicides Metazachlor and Flufenacet using SWAT</i>
4:00 - 4:20 p.m.	Michael Winchell	<i>A Comparison of SWAT Pesticide Simulations Based on Varying Input Resolutions Using a Minimal Calibration Approach</i>
4:20 - 4:25 p.m.	<i>Discussion & Wrap Up</i>	

3:00 p.m. - 4:25 p.m. **SESSION C2 - HYDROLOGY**
Building 37 - Room 0.09

Moderator: José María Bodoque del Pozo
University of Castilla La Mancha, Spain

3:00 - 3:20 p.m.	Daniel N. Moriasi	<i>Hydrologic Evaluation Using Two SWAT Shallow Water Table Depth Algorithms in the South Fork Watershed</i>
3:20 - 3:40 p.m.	Farida Dechmi	<i>Application of SWAT Model to a Sprinkler Irrigated Watershed in the Middle Ebro River Basin (Spain)</i>
3:40 - 4:00 p.m.	Laura Galván González	<i>Malfunctioning of Stream-Gauge Stations in the Chanza and Arochete Rivers (Huelva, Spain) Detected from Hydrological Modeling with SWAT</i>
4:00 - 4:20 p.m.	Leticia Palazón Tabuena	<i>Application and Validation of SWAT Model to an Alpine Catchment in the Central Spanish Pyrenees</i>
4:20 - 4:25 p.m.	<i>Discussion & Wrap Up</i>	

3:00 p.m. - 4:25 p.m. **SESSION C3 - INSTREAM SEDIMENT &
POLLUTANT TRANSPORT**
Building 37 - Room 0.10

Moderator: Balaji Narasimhan
Indian Institute of Technology, India

3:00 - 3:20 p.m.	Anabela Cândida Ramalho Durão	<i>Estimation of Transported Pollutant Load in Ardila Catchment using the SWAT Model</i>
3:20 - 3:40 p.m.	Ricardo Sorando	<i>Modeling the Pollutant Dynamic in an Intensive Irrigation Agricultural Watershed of a Semi-arid Zone: the Flumen River in Northeastern Spain</i>
3:40 - 4:00 p.m.	Mario Guevara	<i>Soil Erosion Modelling in an Agro-forested Catchment of NE Spain Affected by Gullyng using SWAT</i>
4:00 - 4:20 p.m.	Jaehak Jeong	<i>Development of Algorithms for Sedimentation-Filtration Basins in SWAT</i>
4:20 - 4:25 p.m.	<i>Discussion & Wrap Up</i>	

4:25 p.m. - 4:45 p.m. **BREAK**
Building 37 - Restaurant

Wednesday, June 15, 2011



4:45 p.m. - 5:50 p.m. **SESSION D1 - BIOFUEL & PLANT GROWTH**
Building 37 - Room 0.08

Moderator: Jeff Arnold
USDA - Agricultural Research Service, USA

4:45 - 5:05 p.m.	Jesus Uresti Gil	Mapping Sugar Cane Yield for Bioethanol Production in Veracruz, México
5:05 - 5:25 p.m.	Indrajeet Chaubey	Improving the Simulation of Biofuel Crop Sustainability Assessment using SWAT Model
5:25 - 5:45 p.m.	Jesus Uresti-Gil	Mapping King-grass (<i>Pennisetum purpureum</i>) Biomass Yield for Cellulosic Bioethanol Production in Veracruz, México
5:45 - 5:50 p.m.	Discussion & Wrap Up	

4:45 p.m. - 5:50 p.m. **SESSION D2 - CLIMATE CHANGE APPLICATIONS**
Building 37 - Room 0.09

Moderator: A. K. Gosain
Indian Institute of Technology, India

4:45 - 5:05 p.m.	Diana Pascual Sanchez	Climate Change Impacts on Water Availability in Three Mediterranean Basins of Catalonia (NE Spain)
5:05 - 5:25 p.m.	Maite Meaurio Arrate	Application of SWAT Model to Evaluate the Impacts on Water Resources of Some Climatic Scenarios in a Catchment of the Basque Country
5:25 - 5:45 p.m.	Marco Pastori	Impact of Climate Change on the Water and Nutrient Cycles in the Po River Basin (Italy)
5:45 - 5:50 p.m.	Discussion & Wrap Up	

4:45 p.m. - 5:50 p.m. **SESSION D3 - ENVIRONMENTAL APPLICATIONS**
Building 37 - Room 0.10

Moderator: Jose Miguel Sanchez-Perez
ECOLAB, France

4:45 - 5:05 p.m.	João Rocha	Estimating Water Pollution Abatement Cost Functions using the Soil and Water Assessment Tool (SWAT)
5:05 - 5:25 p.m.	Sven Lautenbach	Quantifying Trade-offs Between Bioenergy Production, Food Production, Water Quality and Water Quantity Aspects in a German Case Study
5:25 - 5:45 p.m.	Frederike Schumacher	Simulations of Water Balances in Different European Climates – Potentials and Limitations of Integrated Forest and Land-Use Impact Modelling
5:45 - 5:50 p.m.	Discussion & Wrap Up	

7 p.m. - 9 p.m. **WELCOME RECEPTION**
Palacio de Lorenzana

Guest of Honor

María José Ruíz García
Dean of the Environmental Science Faculty



Thursday, June 16, 2011



8:30 a.m. - 10:15 a.m. **SESSION E1 - CLIMATE CHANGE APPLICATIONS**
 Building 37 - Room 0.08

Moderator: Valentina Krysanova
 Potsdam Inst. for Climate Impact Research, Germany

8:30 - 8:50 a.m.	Minji Park	<i>Analysis of the Future Climate Change Impact on Vegetation Canopy and the Crop Growth Period</i>
8:50 - 9:10 a.m.	Shaochun Huang	<i>Projections of Hydrological Extremes under Climate Change in Germany by Combining Different RCMs with SWIM</i>
9:10 - 9:30 a.m.	Fred Hattermann	<i>Modeling Hydro-climatic Extremes and Flood Damages under Climate Change Conditions</i>
9:30 - 9:50 a.m.	Minh Tue Vu	<i>Quantifying SWAT Runoff Using Gridded Observations and Reanalysis for Dakbla River, Vietnam</i>
9:50 - 10:10 a.m.	Mikolaj Piniewski	<i>Effect of Climate Change on Environmental Flow Indicators in the Narew Basin, Poland</i>
10:10 - 10:15 a.m.	<i>Discussion & Wrap Up</i>	

8:30 a.m. - 10:15 a.m. **SESSION E2 - SEDIMENT, NUTRIENTS & CARBON**
 Building 37 - Room 0.09

Moderator: Pedro Chambel Leitao
 IST-MARETEC, Portugal

8:30 - 8:50 a.m.	Nicola Fohrer	<i>Coupling SWAT with In-stream Models for an Integrated Assessment of Sediment Transport</i>
8:50 - 9:10 a.m.	Matjaž Glavan	<i>Impact of Historically Changed Land Use on the Water Quality of the Rivers Reka and Dragonja, Slovenia</i>
9:10 - 9:30 a.m.	Katrin Bieger	<i>Application of SWAT to a Data Scarce Catchment in the Three Gorges Region, China: The Impact of Land Use Change on Sediment and Phosphorus Transport</i>
9:30 - 9:50 a.m.	Jose María Bodoque	<i>Sub-hourly Modeling of Sheet Erosion and Sediment Transport using the SWAT Model</i>
9:50 - 10:10 a.m.	Balaji Narasimhan	<i>Development and Testing of Improved Physically Based Streambank Erosion and Sediment Routing Routines in SWAT</i>
10:10 - 10:15 a.m.	<i>Discussion & Wrap Up</i>	

8:30 a.m. - 10:15 a.m. **SESSION E3 - HYDROLOGY**
 Building 37 - Room 0.10

Moderator: Taesoo Lee
 Texas AgriLife Research, USA

8:30 - 8:50 a.m.	Abdelhamid Fadil	<i>Hydrologic Modeling of Bouregreg Watershed by SWAT</i>
8:50 - 9:10 a.m.	Alejandra Stehr	<i>Using MODIS Imagery to Validate the Spatial Representation of Snow Cover Extent Obtained from SWAT in a Data-scarce Chilean Andean Watershed</i>
9:10 - 9:30 a.m.	Aouissi Jalel	<i>Assessment of SWAT Potential Evapotranspiration Options and Data-dependence for Estimating Actual Evapotranspiration and Streamflow</i>
9:30 - 9:50 a.m.	Gholamreza Rahbar	<i>The Effects of Floodwater Spreading on Soil Infiltration Rate in Kowsar Aquifer Management Station</i>
9:50 - 10:10 a.m.	Il-Moon Chung	<i>Integrated Surface-Groundwater Analysis on Groundwater Dam Effect in Ssangcheon Watershed in South Korea</i>
10:10 - 10:15 a.m.	<i>Discussion & Wrap Up</i>	

Thursday, June 16, 2011



10:15 a.m. - 10:35 a.m. **BREAK**
Building 37 - Restaurant

10:35 a.m. - 12 p.m. **SESSION F1 - MODEL DEVELOPMENT**
Building 37 - Room 0.08

Moderator: Karim Abbaspour
EAWAG, Switzerland

10:35 - 10:55 a.m.	Ann van Griensven	<i>A New 'Floodland' Module in the SWAT Codes for the Simulation of Periodically Wet Areas</i>
10:55 - 11:15 a.m.	Jichul Ryu	<i>Development of Fully Integrated System for SWAT and REMM Model</i>
11:15 - 11:35 a.m.	Pedro Chambel Leitão	<i>Evapotranspiration Forecast using SWAT Model and Weather Forecast Model</i>
11:35 - 11:55 a.m.	Linh Hoang, Ann van Griensven*	<i>Adaptation to the Sub-Surface Processes in the Soil and Water Assessment Tool</i>
11:55 - 12:00 p.m.	<i>Discussion & Wrap Up</i>	

10:35 a.m. - 12 p.m. **SESSION F2 - INTERNATIONAL SWAT APPLICATIONS REVIEW**
Building 37 - Room 0.09

Moderator: Philip W. Gassman
Iowa State University, USA

10:35 - 10:55 a.m.	Luis Hamilton Pospissil Garbossa	<i>The Use and Results of the Soil and Water Assessment Tool in Brazil: A Review from 1999 until 2010</i>
10:55 - 11:15 a.m.	Marwa Ali	<i>Application of SWAT Model in Land-Use Change in the Nile River Basin: A Review</i>
11:15 - 11:35 a.m.	Preksedis Marco Ndomba Ann van Griensven*	<i>Current Application Trends and Data Challenges Regarding the Use of the Soil and Water Assessment Tool (SWAT) in Africa</i>
11:35 - 11:55 a.m.	Philip W. Gassman	<i>The Worldwide Use of the SWAT Model: Technological Drivers, Networking Impacts, Simulation Trends, and Potential Future Constraints</i>
11:55 - 12:00 p.m.	<i>Discussion & Wrap Up</i>	

10:35 a.m. - 12 p.m. **SESSION F3 - URBAN PROCESSES & MANAGEMENT**
Building 37 - Room 0.10

Moderator: Jaehak Jeong
Texas AgriLife Research, USA

10:35 - 10:55 a.m.	Roger Glick	<i>Calibration of a Sub-Daily SWAT Model and Validation using Different Land Use Data to Examine the Impacts of Land Use Changes</i>
10:55 - 11:15 a.m.	Roger Glick	<i>Applying the Sub-Daily SWAT Model to Assess Erosion Potential under Different Development Scenarios in the Austin, Texas Area</i>
11:15 - 11:35 a.m.	C. Allan Jones	<i>Use of SWAT by International Engineering Firms</i>
11:35 - 11:55 a.m.	Roger Glick	<i>Applying the Sub-Daily SWAT Model to Assess Biological Community Structure under Different Development Scenarios in Austin, Texas</i>
11:55 - 12:00 p.m.	<i>Discussion & Wrap Up</i>	

Thursday, June 16, 2011



12 p.m. - 1:25 p.m. **SESSION G1 - LARGE SCALE APPLICATIONS**
Building 37 - Room 0.08

Moderator: Antonio Lo Porto
IRSA-CNR, Italy

12:00 - 12:20 p.m.	Narayanan Kannan	<i>Evaluating the Effects of Conservation Practices on Water Quality in the Ohio-Tennessee River Basin using a Regional Scale Modeling System</i>
12:20 - 12:40 p.m.	Mike White	<i>Rapid National Model Assessments to Support US Conservation Policy Planning</i>
12:40 - 1:00 p.m.	Xiuying Wang	<i>Assessing Impacts of Rangeland Conservation Practices prior to Implementation: A Simulation Case Study using APEX</i>
1:00 - 1:20 p.m.	Narayanan Kannan	<i>Calibration of SWAT Model for Large-scale Applications</i>
1:20 - 1:25 p.m.	<i>Discussion & Wrap Up</i>	

12 p.m. - 1:25 p.m. **SESSION G2 - BEST MANAGEMENT PRACTICES (BMPS)**
Building 37 - Room 0.09

Moderator: Darrel Andrews
Tarrant Regional Water District, USA

12:00 - 12:20 p.m.	Darrel Andrews	<i>Utilizing SWAT for Water Supply Planning in Texas</i>
12:20 - 12:40 p.m.	Taesoo Lee	<i>Cost Effective Multiple BMPs to Reduce the Total Phosphorous Level in a Reservoir</i>
12:40 - 1:00 p.m.	Yiannis Panagopoulos	<i>A Decision Support Tool for a Cost-effective Mitigation of Non-point Source Pollution</i>
1:00 - 1:20 p.m.	Chung Gil Jung	<i>SWAT-APEX Modeling of the SRI BMP Scenario Effect in an Agricultural Reservoir Watershed of South Korea</i>
1:20 - 1:25 p.m.	<i>Discussion & Wrap Up</i>	

12 p.m. - 1:25 p.m. **SESSION G3 - SENSITIVITY CALIBRATION & UNCERTAINTY**
Building 37 - Room 0.10

Moderator: Brett Watson
University of Saskatchewan, Canada

12:00 - 12:20 p.m.	Jiwon Lee	<i>Analysis of Effects on Validation of Spatiotemporal Changes in Cropping at Agriculture-dominant Watershed</i>
12:20 - 12:40 p.m.	Maria Ermitas Rial Rivas	<i>Calibration and Sensitivity Analysis of SWAT for a Small Forested Catchment, North-Central Portugal</i>
12:40 - 1:00 p.m.	Felix Witing, Martin Volk	<i>Comparing Different Model Calibration Strategies for Improved Representation of Landscape Conditions in SWAT at the Example of a Large Heterogeneous Catchment</i>
1:00 - 1:20 p.m.	Shenglan Lu	<i>Multi-objective Calibration on Flow and Sediment on a Small Danish Catchment</i>
1:20 - 1:25 p.m.	<i>Discussion & Wrap Up</i>	

1:30 p.m. - 3 p.m. **LUNCH**
Building 37 - Restaurant

Thursday, June 16, 2011



3 p.m. - 4 p.m.

POSTER SESSION (viewing)
Building 37 - Room 0.01

Il-Moon Chung*, Nam-Won Kim, Jitae Kim, Jeongwoo Lee	<i>Development of Conceptual Model for the Integrated Surface-Groundwater Analysis in Jeju Island</i>
Ali M. Sadeghi	<i>The Effect of DEM Resolution on Slope Estimation and Sediment Predictions</i>
Woo-Yul Jung, Sung-Kee Yang, Jitae Kim*	<i>Simulation on Runoff of Rivers in Jeju Island using SWAT Model</i>
Yan Li*, Julian Thompson, Richard Taylor, Hengpeng Li	<i>Sensitivity Analysis and Calibration of the SWAT Model: Understanding Model Behaviour in Hydrological Studies of the Daning Catchment, China</i>
Samuel Fournet	<i>Preliminary Investigation for the Development of a Water Allocation Module in SWIM to Study the Impact of Prospective and Conflicting Irrigation and Water Resources Management Plans in the Inner Niger Delta under Climate Change Conditions</i>
Julia Tecklenburg	<i>Investigation of Monsoon Variability and Related Impacts on Hydrological Processes in the Nile Basin under Climate Change Conditions</i>
Judith Stagl	<i>Climate Change Impacts on River Flow Regime and Discharge into the Danube Delta including Quantification of Scenario Uncertainty</i>
Hendrik Rathjens Natascha Oppelt	<i>Upgrading the Grid-based Discretization Scheme in SWAT</i>
Luis Jiménez Meneses M. Morales, T. Sanz, M.T. Bellido	<i>Reduction of the Peak Streamflow as a Result of Vegetation Rehabilitation in the "Yesos of Barrachina" Protected Area</i>
Jiang Rui	<i>Modeling the Water Balance Processes for Understanding the Components of River Discharge in a Non-conservative Watershed</i>
Seyed Zeynalabedin Hosseini	<i>Estimating Relation Between Vegetation Dynamic and Precipitation in Central Iran</i>
L. N. Kieu, M.R. Reyes, G. Hoyt, E. Steglich	<i>Evaluation of the APEX Model for Organic and Conventional Management Under Conservation and Conventional Tillage Systems</i>
Deniz Özkundakci1*, David P. Hamilton, Chris G. McBride	<i>A Coupled Catchment-lake Model to Simulate Historical, Contemporary and Future Water Quality of a Eutrophic, Polymictic Lake</i>

6 p.m. to 9 p.m.

DEPART FOR CONFERENCE OUTING
Guided Walking Tour across the historical city

- Please meet at approximately 6 p.m.
to participate in the walking tour
(Please remain in groups of 30 people per each tour-guide)

- Bus will take group to dinner at 9 p.m.

Restaurante Hierbabuena
Callejon San Jose, 17, 45003
Toledo, Spain



Friday, June 17, 2011



9:30 a.m. - 11:15 a.m. **SESSION H1 - SEDIMENT, NUTRIENTS & CARBON**
 Building 37 - Room 0.08

Moderator: Narayanan Kannan
 Texas AgriLife Research, USA

9:30 - 9:50 a.m.	María Concepción Ramos	<i>Runoff and Soil Loss Prediction in a Vineyard Area at Very Detailed Scale using SWAT Model: Comparison Between Dry and Wet Years</i>
9:50 - 10:10 a.m.	Sanjeev Kumar	<i>Modelling Nitrogen in Streamflow from Boreal Forest Watersheds in Alberta, Canada using SWAT</i>
10:10 - 10:30 a.m.	Nadia Bernardi Bonumá	<i>Integration of a Landscape Sediment Deposition Routine into SWAT Model</i>
10:30 - 10:50 a.m.	Jim Almendinger	<i>Use of SWAT to Scale Sediment Delivery from Field to Watershed in an Agricultural Landscape with Topographic Depressions</i>
10:50 - 11:10 a.m.	Stefan Julich	<i>Water Quality Modeling in Luxembourgish Watersheds for the Identification and Quantification of Sources for River Water Pollution</i>
11:10 - 11:15 a.m.	<i>Discussion & Wrap Up</i>	

9:30 a.m. - 11:15 a.m. **SESSION H2 - HYDROLOGY**
 Building 37 - Room 0.09

Moderator: Balaji Narasimhan
 Indian Institute of Technology, India

9:30 - 9:50 a.m.	Pedro Chambel Leitão	<i>Modeling Watershed Dynamics in Agricultural/Silvopastoral System of a Semi-arid Zone: Enxoe River in Southeast Portugal</i>
9:50 - 10:10 a.m.	Fidelis Kilonzo	<i>Choosing a Potential Evapotranspiration Method in the Absence of Essential Climatic Input Data</i>
10:10 - 10:30 a.m.	Geun-Ae Park	<i>Analysis of SWAT Simulated Soil Moisture with the MODIS Land Surface Temperature and Vegetation Index for Soyanggang Dam Watershed of South Korea</i>
10:30 - 10:50 a.m.	Jaehak Jeong	<i>Flood Routing for Continuous Simulation Models</i>
10:50 - 11:10 a.m.	Paul Wagner	<i>Impacts of Precipitation Interpolation on Hydrologic Modeling in Data Scarce Regions</i>
11:10 - 11:15 a.m.	<i>Discussion & Wrap Up</i>	

9:30 a.m. - 11:25 a.m. **SESSION H3 - LARGE SCALE APPLICATIONS**
 Building 37 - Room 0.10

Moderator: Il-Moon Chung
 Korea Institute of Construction Technology, Korea

9:30 - 9:50 a.m.	Eugenio Molina Navarro	<i>Studying the Viability of a Limno-reservoir using SWAT: The Ompólveda River Basin (Guadalajara, Spain) as a Case of Study</i>
9:50 - 10:10 a.m.	Pierluigi Cau	<i>Using SWAT and GETM to Model the Integrated Water Cycle within the BASHYT Environment</i>
10:10 - 10:30 a.m.	Hua Xie	<i>Assessing the Application Potentials of Treadle Pump Irrigation Technology in Sub-Saharan Africa</i>
10:30 - 10:50 a.m.	Dorian Gorgan	<i>Grid based Hydrological Model Calibration and Execution by SWAT Application</i>
10:50 - 11:10 a.m.	Tirupati Boliseti	<i>Representation of Modeling Errors by AR(1) Process and Uncertainty Analysis of SWAT Model under Bayesian Approach</i>
11:10 - 11:20 a.m.	Asghar Besalatpour	<i>Soil Erosion Hazard Prediction using SWAT Model and Fuzzy Logic in a large Watershed</i>
11:20 - 11:25 a.m.	<i>Discussion & Wrap Up</i>	

11:15 a.m. - 11:35 a.m. **BREAK**
 Building 37 - Restaurant

Friday, June 17, 2011



11:35 a.m. - 1:20 p.m. SESSION I1 - DATABASE AND GIS APPLICATION AND DEVELOPMENT
Building 37 - Room 0.08

Moderator: Pierluigi Cau
 CRS4, Italy

11:35 - 11:55 a.m.	Sudipta K. Mishra	<i>Understanding Water-Human Interaction through an Intelligent Digital Watershed: Initial Development and Implementation</i>
11:55 - 12:15 p.m.	A. K. Gosain, Chakresh Sahu	<i>Geospatial Infrastructure for Water Resources Assessment & Planning</i>
12:15 - 12:35 p.m.	Dharmendra Saraswat	<i>SWAT2009_LUC: A Tool to Activate Land Use Change Module in SWAT 2009</i>
12:35 - 12:55 p.m.	A. K. Gosain, Chakresh Sahu	<i>SwatCube: An OLAP Approach for Managing Swat Model Results</i>
12:55 - 1:15 p.m.	Constantino Soru	<i>A Web Interface to Write the txtinout file for Scenarios Development</i>
1:15 - 1:20 p.m.	<i>Discussion & Wrap Up</i>	

11:35 a.m. - 12:40 p.m. SESSION I2 - CLIMATE CHANGE APPLICATIONS
Building 37 - Room 0.09

Moderator: Bouchra Haddad
 University of Castilla La Mancha, Spain

11:35 - 11:55 a.m.	Imtiaz Bashir	<i>Evaluation of Climate Change Impacts on the Blue Nile flows using SWAT</i>
11:55 - 12:15 p.m.	Jong-Yoon Park	<i>Assessment of Future Climate Change Impacts on Stream and Lake Water Quality using SWAT and WASP model</i>
12:15 - 12:35 p.m.	Brett Watson	<i>Comparison of Temperature-Index Snowmelt Models of Varying Complexity in SWAT for Predicting Water Yield in a Cold Region</i>
12:35 - 12:40 p.m.	<i>Discussion & Wrap Up</i>	

11:35 a.m. - 1:20 p.m. SESSION I3 - ENVIRONMENTAL APPLICATIONS
Building 37 - Room 0.10

Moderator: Mike White
 USDA - Agricultural Research Service, USA

11:35 - 11:55 a.m.	Aloyce S. Hepelwa	<i>Economic Valuation and Hydrologic Analysis in View of Sustainable Watershed Management: The Case of Sigi Catchment in Tanzania</i>
11:55 - 12:15 p.m.	Cristina Yacoub López	<i>Assessing Hydrologic Impact of Anthropogenic Activities Located at the Upper Part of Jequetepeque River Basin, Peru</i>
12:15 - 12:35 p.m.	Mojgan Azimi	<i>Application of SWAT to Model Rangeland Production Dominated by Sagebrush (Artemisia sieberi) in Hable-Rud Basin, Iran</i>
12:35 - 12:55 p.m.	Sabine Sauvage	<i>Modelling the Nitrate Dynamics and the Role of Buffer Zones in a Major European Catchment, the Garonne River, in Southwest France</i>
12:55 - 1:15 p.m.	Rebecca Boger	<i>Community Based Watershed Modeling in Nigeria</i>
1:15 - 1:20 p.m.	<i>Discussion & Wrap Up</i>	

Friday, June 17, 2011



11:35 a.m. - 1:20 p.m. **SESSION I4 - HYDROLOGY**
Building 37 - Room 0.01

Moderator: Daniel Moriasi
USDA - Agricultural Research Service, USA

11:35 - 11:55 a.m.	Hyung Jin Shin	<i>Evaluation of Snowmelt Contribution to Streamflow in a Heavy Snowfall Watershed of South Korea using SWAT Model</i>
11:55 - 12:15 p.m.	Kazi Rahman	<i>Runoff Simulation in a Glacier Dominated Watershed of Rhone River using Semi Distributed Hydrological Model</i>
12:15 - 12:35 p.m.	Philip W. Gassman	<i>Development of SWAT Hydrologic Input Parameter Guidelines for Specific Iowa Landform Regions for TMDL Analyses and Other Water Quality Assessments</i>
12:35 - 12:55 p.m.	Maria Luz Rodríguez-Blanco	<i>Simulation of Stream Discharge from an Agroforestry Catchment in NW Spain using SWAT Model</i>
12:55 - 1:15 p.m.	Rajesh Nune	<i>An Assessment of Climatic and Anthropogenic Impacts on a Hydrological System</i>
1:15 - 1:20 p.m.	<i>Discussion & Wrap Up</i>	

1:30 p.m. - 3 p.m. **LUNCH**
Building 37 - Restaurant

3 p.m. - 4:30 p.m. **CLOSING SESSION**
OPEN FORUM FOR SWAT DISCUSSION
Building 37 - Room 0.01



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