# **SWAT 2018**



19-21 September / Brussels, Belgium

# **AGENDA**



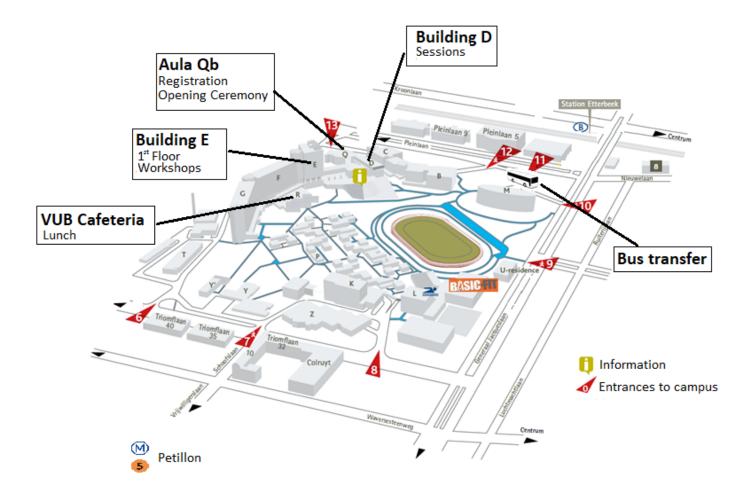


The Soil and Water Assessment Tool (SWAT) is a public domain model jointly developed by USDA Agricultural Research Service (USDA-ARS) and Texas A&M AgriLife Research, part of The Texas A&M University System.

SWAT is a small watershed to river basin-scale model to simulate the quality and quantity of surface and ground water and predict the environmental impact of land use, land management practices, and climate change. SWAT is widely used in assessing soil erosion prevention and control, non-point source pollution control and regional management in watersheds.

swat.tamu.edu | facebook.com/swatmodel | twitter.com/swat\_model

#### **VUB Campus Map**



#### **Conference Overview**

	Wednesday, September 19	
8:00 – 9:00	Registration and Check-in	Aula Qb
9:00 – 10:30	Opening Ceremony	Aula Qb
10:30 – 11:00	Coffee Break and Group Photo	
11:00 – 12:30	A1 SWAT+ A2 Sensitivity Calibration and Uncertainty A3 Environmental Applications	Building D.2.20 Building D.2.18 Building D.2.19
12:30 – 14:00	Lunch	VUB Cafeteria
14:00 – 15:30	<ul> <li>B1 SWAT Applications for Ecosystem Services</li> <li>B2 Model Development</li> <li>B3 Hydrology</li> <li>B4 Large Scale Applications</li> </ul>	Building D.2.20 Building D.2.18 Building D.2.19 Building D.2.16
15:30 – 16:00	Coffee Break	
16:00 – 17:30	C1 Climate Change Applications C2 BMPs C3 Hydrology C4 InStream Sediment and Pollutant Transport / Pesticides, Bacteria, Metals, and Pharmaceuticals	Building D.2.16 Building D.2.18 Building D.2.19 Building D.2.20
18:30 – 22:30	Dinner Gala	Chalet Robinson

9:00 – 10:30	<ul> <li>D1 SWAT Applications for Ecosystem Services</li> <li>D2 Sensitivity Calibration and Uncertainty</li> <li>D3 Model Development</li> <li>D4 Climate Change Applications</li> </ul>	Building D.2.16 Building D.2.18 Building D.2.19 Building D.2.20
10:30 – 11:00	Coffee Break	
11:00 – 12:30	E1 SWAT+ E2 Sediment, Nutrients, and Carbon E3 Environmental Applications E4 Hydrology	Building D.2.20 Building D.2.18 Building D.2.19 Building D.2.16
12:30 – 13:30	Lunch	VUB Cafeteria
13:30 – 14:30	F1 SWAT+ Demo	Aula Qb
14:30 – 15:00	Transfer to Royal Academy of Sciences (KVAB)	
15:00 – 17:00	G1 Poster Session	KVAB
17:00 – 19:00	Tours	

		Friday, September 21	
9:00 – 10:30	H1 H2 H3	Sediment, Nutrients, and Carbon Hydrology Climate Change Applications	Building D.2.16 Building D.2.18 Building D.2.19
10:30 – 11:00	Coff	fee Break	
11:00 – 12:30	11 12 13	Environmental Applications Climate Change Applications Hydrology	Building D.2.16 Building D.2.18 Building D.2.19
12:30 – 13:30	Lune	ch	VUB Cafeteria
13:30 – 15:00	J1 J2 J3	Model Development Climate Change Applications Hydrology	Building D.2.16 Building D.2.18 Building D.2.19
15:00 – 16:00	Clos	sing Session	Aula Qb

8:00 – 9:00	PARTICIPANT CHECK-IN AI Aula Qb	ND REGISTRATION
9:00 – 10:30	<b>OPENING CEREMONY</b> Aula Qb	
9:00 – 9:10	<b>Prof. Ann van Griensven</b> Head of Department Hydro	ology and Hydraulic Engineering VUB
9:10 – 9:20	<b>Prof. Caroline Pauwels</b> Rector VUB	
9:20 – 10:10	Prof. Jeff Arnold, USDA-AR Prof. Raghavan Srinivasan	
10:10 – 10:30	Discussion	
10:30 – 11:00	COFFEE BREAK AND GROU	IP РНОТО
11:00 – 12:30	SESSION A1: SWAT+ Building D.2.20	<b>Moderator:</b> Jeff Arnold, USDA-ARS
11:00 – 11:20	Jeff Arnold	Utilizing the New SWAT+ Structure to Improve U.S. National Conservation and Environmental Assessments
11:20 – 11:40	Celray James Chawanda	Using Soft Data to Calibrate SWAT+ Models
11:40 – 12:00	Paul Wagner	Exploring the capabilities of SWAT+ in a rural lowland catchment in the North of Germany

11:00 – 12:30	SESSION A2: Sensitivity Building D.2.18	Calibration and Uncertainty Moderator: Jiri Nossent, VUB, Belgium
11:00 – 11:20	Latif Kalin	Modeling Strategies for a Groundwater Dominated Headwater System
11:20 – 11:40	Thais Fujita	Nearest Neighbor and Inverse Distance Weighting for rainfall estimation in SWAT application
11:40 – 12:00	Gokhan Cuceloglu	Evaluating the Impact of Different Input Datasets and Model Configuration Uncertainty on Streamflow Simulations by Using SWAT Model
12:00 – 12:20	Carla Camargos	Optimization of SWAT performance using a Python tool

11:00 – 12:30	SESSION A3: Environment Building D.2.19	ntal Applications Moderator: Jae Texas A&M Agri Research, USA	
11:00 – 11:20	Marco Napoli	Analysis of the land-use and climate chang sediment discharged from cultivated field hilly basin in Italy	
11:20 – 11:40	Li-Chi Chiang	Integrating landscape metrics and hydrolo modeling to assess the impact of natural disturbances on ecohydrological processes Chenyulan watershed, Taiwan	
11:40 – 12:00	Ci-Jyun Liao	Comparative assessment of SWAT-Twn more performance for simulating erosion and set transport in two distinct basins in Taiwan	
12:00 – 12:20	Tarigan Suria	Assessing relative impact of change in soil infiltration and plant transpiration on the water yield component and water scarcity Tropical Lowland Rainforest Transformatic (Sumatra, Indonesia)	in the

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12:30 – 14:00	<b>LUNCH</b> VUB Cafeteria		
14:00 – 15:30	SESSION B1: SWAT Applic Services Building D.2.20	ations for Ecosystem	<b>Moderator:</b> Martin Volk, UFZ-Helmholtz Centre for Environmental Research
14:00 – 14:20	Martin Volk	Using SWAT and other recosystem services and reflection	
14:20 – 14:40	Michael Strauch		or something in between? e optimization based on
14:40 – 15:00	Roxelane Cakir		o quantify water regulation tern Europe watersheds
15:00 – 15:20	Nina Zarrineh	Impact analysis of land ecosystem services usin	management scenarios on ng SWAT
14:00 – 15:30	SESSION B2: Model Devel Building D.2.18	opment	Moderator: Xuesong Zhang, Pacific Northwest National Laboratory and University of Maryland
14:00 – 14:20	Seyed Saeid Ashraf Vaghefi	Runoff determination in SWAT-GERM framewor	n glacierized basins, using k
14:20 – 14:40	Xuesong Zhang	Advancing coupled wat within SWAT toward im sustainability assessmen	•
14:40 – 15:00	Matin Baymani-Nezhad	Implementation of a recuplating individual floo	cursive numerical filter for od hydrographs

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14:00 – 15:30	SESSION B3: Hydrology Building D.2.19	<b>Moderator:</b> Ilyas Mashi, UNESCO-IHE
14:00 – 14:20	Saroj Verma	Modification of Infiltration Characteristics of Natural Ground Formations using Horton's Model
14:20 – 14:40	Joy Sanyal	Impact of different types of meteorological data inputs on predicted hydrological and erosive responses to projected land use change
14:40 – 15:00	Qingrui Wang	Water environmental capacity calculation based on SWAT model in Xiangxi River Watershed, China

14:00 – 15:30	SESSION B4: Large Scale A Building D.2.16	Applications Moderator: Anthony Lehmann, University of Geneva
14:00 – 14:20	Anthony Lehmann	Deriving water quality indicators from essential water variables with SWAT
14:20 – 14:40	Rajesh Gupta	Integrated Water Resources Management (IWRM) of Kosi Basin for Regional Economic Development
14:40 – 15:00	Narendra Kumar Tiwary	Integrated Flood Management in Bagmati river basin Using Modern Technology
15:00 – 15:20	Narendra Kumar Tiwary	Sustainable Watershed Management in Ganga river basin Using SWAT Model

15:30 – 16:00 **COFFEE BREAK** 

16:00 – 17:30	SESSION C1: Climate Chang Building D.2.16	<b>Moderator:</b> Mikołaj Piniewski, Warsaw University of Life Sciences
16:00 – 16:20	Mikołaj Piniewski	Model-based reconstruction and projections of soil moisture anomalies and crop losses in Poland
16:20 – 16:40	Joanna O'Keeffe	Projections of climate change impact on wetland habitats within Natura 2000 in Poland
16:40 – 17:00	Tirupati Bolisetti	Understanding the climate model uncertainty in streamflow projection
17:00 – 17:20	Melanie Raimonet	Water quality regulation functions under future climate change in South-Western Europe catchments
16:00 – 17:30	SESSION C2: BMPs	<b>Moderator:</b> Michael
	Building D.2.18	White, USDA-ARS
16:00 – 16:20	Michael White	Development of a simple field scale conservation planning tool using SWAT based export coefficients
16:20 – 16:40	Matjaž Glavan	The Use of the APEX Model for the Evaluation of Different Types of Agricultural Land Management
16:40 – 17:00	Natalia Uribe	Spatio-temporal critical source areas (CSAs) affecting surface run-off of traditional agricultural practices in Riogrande watershed, Colombia.
17:00 – 17:20		

16:00 – 17:30	SESSION C3: Hydrology Building D.2.19	<b>Moderator:</b> José Miguel Sánchez-Pérez, CNRS- ECOLAB, France
16:00 – 16:20	Farida Dechmi	SWAT2012 model evaluation in semi-arid irrigated watershed
16:20 – 16:40	José Miguel Sanchez Perez	AGUAMOD: A decision support system to evaluate water resources during low water period in South-Western Europe catchments
16:40 – 17:00	T.A. Jeewanthi Gangani Sirisena	Use of evaporation and streamflow data in hydrological model calibration
17:00 – 17:20	Jaehak Jeong	Simulating Inbred Corn Yields and Nitrogen Fate with APEX
16:00 – 17:30	SESSION C4: InStream Sedi Transport / Pesticides, Bac Pharmaceuticals Building D.2.20	•
16:00 – 16:20	Philip Gassman	Application of SWAT for the Boone River Watershed in North Central Iowa, U.S.: Implications of Different Nutrient Load Estimation Techniques for Model Testing
16:20 – 16:40	Ming Fai Chow	Modeling the efficiencies of check dams on reducing the sedimentation problem: A case study of the Cameron Highlands reservoir in Malaysia
16:40 – 17:00	Le Hoang Tu	Improvement and application of the PCPF- 1@SWAT2012 model for predicting pesticide transport: A case study of the Sakura River watershed
17:00 – 17:20	Minjeong Kim	Modeling the impact of land use change on basin- scale transfer of fecal indicator bacteria: SWAT model performance
18:30 – 22:30	DINNER GALA	

**Chalet Robinson** 

Sentier de l'Embarcadere 1, 1000 Brussels

Buses provided

9:00 – 10:30	SESSION D1: SWAT Appli Services Building D.2.16	cations for Ecosystem Moderator: Stefan Julich, TU Dresden
9:00 – 9:20	Bryan Clark Hernandez	Hydrologic Impact Analysis of Land Use Change on Tropical Coastal Mangrove Ecosystems: Aklan, Philippines
9:20 – 9:40	Shashidhar Thatikonda	Valuing Hydrological outputs as Water related Ecosystem Services under Present and Future Climate Scenarios for Godavari basin
9:40 – 10:00	So Young Woo	Improvement of Aquatic Ecology Healthiness by Securing Stream Maintenance Flow and Applying Agricultural Best Management Practices
9:00 – 10:30	SESSION D2: Sensitivity C Building D.2.18	<b>Calibration and Uncertainty</b> Moderator: Gerald Corzo, UNESCO-IHE
9:00 – 10:30 9:00 – 9:20	-	•
	Building D.2.18	UNESCO-IHE  Calibration and uncertainty analysis of SWAT model for stream flow modelling in the tropical highlands
9:00 – 9:20	Building D.2.18  Ming Fai Chow	Calibration and uncertainty analysis of SWAT model for stream flow modelling in the tropical highlands watershed  Sensitivity of SWAT modeling in the Mediterranean

9:00 – 10:30	SESSION D3: Model Develor Building D.2.19	Moderator: Ryan Bailey, Colorado State University, USA
9:00 – 9:20	Tammo Steenhuis	Revisiting SWAT as a semi-distributed saturation- excess runoff model for humid temperate and monsoonal climates
9:20 – 9:40	Bhumika Uniyal	Improving the Auto-irrigation Scheduling of SWAT for Effective Agricultural Water Management
9:40 – 10:00	Ryan Bailey	A Salinity Chemistry and Transport Module for SWAT
10:00 – 10:20	Ryan Bailey	Developing an integrated surface/subsurface watershed model by coupling APEX and MODFLOW
9:00 – 10:30	SESSION D4: Climate Chan	ge Applications Moderator: Faith Githui,
9:00 – 10:30	SESSION D4: Climate Chan Building D.2.20	ge Applications  Moderator: Faith Githui, Department of Economic Development, Australia
9:00 – 10:30 9:00 – 9:20		Department of Economic
	Building D.2.20	Department of Economic Development, Australia  Modelling the combined effects of land use and climate changes on water availability and quality in
9:00 – 9:20	Building D.2.20  Eugenio Molina-Navarro	Department of Economic Development, Australia  Modelling the combined effects of land use and climate changes on water availability and quality in the Odense Fjord catchment (Denmark).  The Impact of Future Urban Expansion on Stream

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10:30 – 11:00	COFFEE BREAK		
11:00 – 12:30	SESSION E1: SWAT+ Building D.2.20		<b>Moderator:</b> Katrin Bieger, Texas A&M AgriLife, USA
11:00 – 11:20	Katrin Bieger	Exploring the sensitivity stream connectivity in S	of upland – floodplain – SWAT+
11:20 – 11:40	Ann van Griensven	Simulation of flooding of SWAT+	of riparian wetlands using
11:40 – 12:00	Imeshi Weerasinghe	Plus (SWAT+) for Evapo	nd Water Assessment Tool transpiration using Remote ts for the Blue Nile Basin
11:00 – 12:30	SESSION E2: Sediment, Nu Building D.2.18	itrients, and Carbon	<b>Moderator:</b> Sabine Sauvage, UMR-ECOLAB, France
11:00 – 11:20	Natalja Čerkasova	Development of the tra watershed model for hy using modified SWAT se	drology and water quality
11:20 – 11:40	Hong Hanh Nguyen	Comparative study of modelling sediment and nutrient loads of a small semi-arid catchment by the alternative models SWAT and SOURCE	
11:40 – 12:00	Xi Wei	•	odel sediment and carbon rshed: the Red River study m)

11:00 – 12:30	SESSION E3: Environment Building D.2.19	Moderator: José Migue Sánchez-Pérez, CNRS- ECOLAB, France	el
11:00 – 11:20	Odile Leccia-Phelpin	Land management mitigation scenarios for alleviating impacts on water resources. An application of the SWAT model, part of integrated assessment	d
11:20 – 11:40	Chung Gil Jung	Evaluation of Aquatic Ecology Health Index Using Extreme Gradient Boosting Tree and SWAT	
11:40 – 12:00	Petr Krpec	SWAT application in case of small reservoir watershed, Czech Republic	
12:00 – 12:20	Latif Kalin	Modelling the impacts of conservation practices of water quality at a reservoir catchment in southern Brazil	
11:00 – 12:30	SESSION E4: Hydrology Building D.2.16	<b>Moderator:</b> Seifu Tilahu Bahir Dar University	un,
11:00 – 12:30 11:00 – 11:20			g-
	Building D.2.16	Bahir Dar University  Effects of land cover change scenarios on the long	g- 3
11:00 – 11:20	Building D.2.16  Alemayehu Shawul	Effects of land cover change scenarios on the long term runoff in the Akaki river watershed, Ethiopia  Effect of land use and land cover dynamics on streamflow by using SWAT model in Chindwin Bases	g- sin,
11:00 – 11:20 11:20 – 11:40	Building D.2.16  Alemayehu Shawul  Chinaporn Meechaiya	Effects of land cover change scenarios on the long term runoff in the Akaki river watershed, Ethiopia  Effect of land use and land cover dynamics on streamflow by using SWAT model in Chindwin Bas Myanmar  Modeling Streamflow Response to Changes in Land Use and Land Cover in the Upper Ruvu Watershed	g- sin, nd d,

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13:30 – 14:30 **SESSION F1: SWAT+ Demo** 

Aula Qb

Demonstration of QSWAT+ and SWAT+ Editor by Chris George and Jaclyn Tech

14:30 – 15:00 Transfer to Royal Academy of Sciences (KVAB)

Rue Ducale 1, 1000 Brussels

Buses provided

15:00 – 17:00 **SESSION G1: Posters** 

**KVAB** 

Georgios Bariamis	Hydrological simulation of the Aliakmonas river under changing land cover conditions
Andreas Bauwe	Predicting dissolved reactive phosphorus in tile-drained catchments using a modified SWAT model
Natalja Čerkasova	The assessment of future ecosystem services related to water availability and water quality in the Lithuanian coastal zone
Lei Chen	Development of a universal calibration platform tool for watershed models using global optimization
Yi Hsuan Chen	Natural hydrological responses due to climate variation based on short-time series of a headwater catchment in Taiwan
Il-Moon Chung	Estimation of hourly peak flow by combining SWAT simulation and Sangal's method in the Han River basin, Korea
Miha Curk	Redefining water protection measures on an alluvial plain with shallow soil in Slovenia
Anna Maria De Girolamo	Modelling management practices to reduce soil erosion in an agricultural watershed in Southern Europe
Vanessa Dos Santos	Surface runoff management modelling in dry valleys (Upper Normandy, France)
Thais Fujita	Assessment of the SWAT model for downscaled future climate scenarios for the Ivaí River Basin
Josiclêda Galvincio	Application of the SUPer system for the basins of Pontal and Brígida in the state of Pernambuco, Brazil
Josiclêda Galvincio	Analysis of climate and soil occupation impacts on surface runoff of the Pontal watershed in Pernambuco, Brazil
Matjaž Glavan	Effects of water protection regime on nitrogen leaching in Dravsko polje, Slovenia

Mekonnen Daba Habtemariam	SWAT Simulated Hydrological Response to Climate Change Impact in Upper Awash Sub-basin, Awash Basin, Ethiopia
Stefan Julich	Monitoring and Modelling Set up to assess the impacts of Short rotation coppices on the site water balance
Chul-gyum Kim	Future prospect of dam inflow based on user-centered multiple GCMs and downscaling techniques
Chul-gyum Kim	Using SWAT watershed modeling to analyze the relationship between water balance components in Jeju Island of Korea
Seong Joon Kim	Hydrological analysis of environmental changes in the reservoir using SWAT model
Ervin Kosatica	A conceptual framework to analyze ecosystem services with a physically based eco-hydrological model SWAT
Jeongwoo Lee	Assessment of effects of agricultural reservoirs on the flow regime in a small rural catchment
Jeongwoo Lee	Impacts of water withdrawal and release on streamflow in the Anseongcheon watershed, Korea
Jeong Eun Lee	Assessement of flood alterations by dam using SWAT simulation in the Han River basin, Korea
Jeongwoo Lee	Evaluation of the modified SWAT with variable time of concentration
Ruimin Liu	Uncertainty analysis of SWAT model based on land use change in Xiangxi River Watershed, China
Ronalton Machado	Impacts of Land-Use and Climate Changes on Hydrologic Processes in the Piracicaba River Basin, Brazil
Rebeca Martínez	Effect on Water Quantity and Quality Under Land Use Scenarios in South Central Chile
Veronica Minaya	Nutrient modelling and land use assessment using the Soil and Water Assessment Tool (SWAT), case study: Coca River Basin
Rodrigo Miranda	Water balance of the Northern Axis Basins of the São Francisco River Transposition area using the SWAT model
Eugenio Molina-Navarro	SWAT2lake: A QGIS tool to tailor SWAT watershed delineations to waterbodies
Suzana Montenegro	Evaluation of TRMM Products and Their Use in Hydrological Modelling Over Pirapama River Basin, Pernambuco, Brazil
Suzana Montenegro	Identification of Critical Erosion Watersheds for Control Management Using the SWAT Model for Pirapama River Basin, Brazil
Suzana Montenegro	Effects of Scenarios of Land Use and Cover on Streamflow and Sediment Yield: A Case Study of Peixe River Basin, Brazil
Subira Munishi	Assessment of Water Availability and Uses in Kilombero Basin, Tanzania

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Van Tam Nguyen	Flood Routing in the Soil and Water Assessment Tool: A Review
GM Jakirullah Nooruddin	The concurrent effects on land use conversions and local geomorphological features on Nitrate level to the regulation of fresh water quality.
Joanna O'Keeffe	Assessment of climate change impact on water temperature of rivers in Poland
Valeriy Osypov	The Desna river daily multi-site streamflow modeling using SWAT with detail snowmelt adjustment
Julio Perez-Sanchez	Modeling the impact of climate change on water resources in the headwaters of the Tagus river basin
Julio Perez-Sanchez	Impacts of land use change and climate variability on water resources in the headwaters of the Segura River Basin (SE Spain)
José Miguel Sánchez Pérez	Predicting particulate and dissolved organic carbon exports in watersheds at global scale
José Miguel Sánchez Pérez	An integration of landscape units in the SWAT-LUD model to better predict water discharge in the Amazon River
José Miguel Sánchez Pérez	Modeling of Suspended Sediment Load combining the SWAT mode and Suspended Particulate Matter using Landsat-8 OLI data: The case of the Orinoco River - Venezuela
José Miguel Sánchez Pérez	Analysis of Sediment and Carbon Fluxes: A study of Ganga- Brahmaputra Basin
Sabine Sauvage	Quantifying the role of Amazonian wetlands in denitrification process and greenhouse gases outgassing patterns by using L-band remote sensing earth observations and SWAT modelling.
Sabine Sauvage	Investigating the Role of Wetlands in the Hydrology of the Congo River Basin Using the SWAT Model
Zhenyao Shen	Identification key sensitive parameters for Soil and Water Assessment Tool at multiple temporal scales
Mesfin Tolera	Groundwater Recharge Estimation in Little Akaki Watershed using SWAT Model

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17:00 - 19:00

**Tours** 

**Brussels highlights of the city centre (2hrs):** Discover Brussels through a walk, which will take you from the Royal district to the historic centre, with its Grand-Place of Brussels, the Cathedral of Saints Michael and Gudula, the Royal Saint-Hubert Galeries, the Saint-Gery square, the Sablon square, and Manneken Pis.

**Beer tour with tastings (2 hrs):** Let's dive into Brussels beers, breweries and taverns. Your guide will show you some old taverns in some hidden streets of the city centre. You will taste some beers in a special atmosphere.

**Comic strip walk (2hrs):** Brussels is known as the capital of comic strip, the heroes has taken possession of the walls, follow the guide and raise your eyes to discover them during this walk. Don't miss the painting of the famous Tintin!

**Mystery and Legends tour (2hrs):** Discover the legends of Brussels through it symbols and enigmatic images engraved on the façades left from architects, sculptors and find out the secrets hidden behind with your guide.

9:00 – 10:30	SESSION H1: Sediment, Nu Building D.2.16	trients, and Carbon Moderator: Mijail Arias Hidalgo, ESPOL, Ecuador
9:00 – 9:20	Jari Koskiaho	SWAT nutrient calibration and validation with a 6- year data set of continuos data in a Finnish catchment
9:20 – 9:40	Ilyas Masih	Simulation of sedimentation rates using the SWAT model: A case study of the Tarbela Dam, Upper Indus Basin.
9:40 – 10:00	Juan Luis Lechuga Crespo	Analysis of factors affecting sediment yield in catchments draining to the Cantabrian Sea (West Europe)
10:00 – 10:20	Juan Luis Lechuga Crespo	Evaluation of the precipitation time-step influence in streamflow and suspended sediment yield using SWAT in a small forested headwater catchment
9:00 – 10:30	SESSION H2: Hydrology Building D.2.18	<b>Moderator:</b> Raul Vazquez, University of Cuenca, Ecuador
9:00 – 9:20	Eugenio Molina-Navarro	SWAT vs. SWAT-MODFLOW in lowland catchments: Comparison of performance and simulation of groundwater abstraction scenarios.
9:20 – 9:40	Abolanle Elizabeth Odusanya	Simulating stream flow using an eco-hydrological model calibrated with global land surface evapotranspiration from remote sensing data
9:40 – 10:00	Kim Loi Nguyen	Integrating SWAT and HEC-RAS Models for Flood Forecasting in Vu Gia- Thu Bon River Basin, Vietnam
10:00 – 10:20	Kim Loi Nguyen	Analyzing spatial and temporal variation of water

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9:00 – 10:30	SESSION H3: Climate Chang Building D.2.19	ge Applications	Moderator: Michael Strauch, UFZ-Helmholtz Centre for Environmental Research
9:00 – 9:20	Mohd Syazwan Faisal Bin Mohd	-	f Climate Change on Water da Watershed using Soil and s (SWAT)
9:20 – 9:40	Saeid Ashraf	Climate change impacts Alpine catchments	on glaciers and runoff in
9:40 – 10:00	Saeid Ashraf Vaghefi	Using big data sets to co impacts	ombat climate change
10:00 – 10:20	Mohammad Hashim		cal processes of Sot river ttar Pradesh- a case study of
10:30 – 11:00	COFFEE BREAK		
11:00 – 12:30	SESSION I1: Environmental Building D.2.16	l Applications	Moderator: Winfred Mbungu, Sokoine University of Agriculture, Tanzania
11:00 – 11:20	Dennis Trolle	A web platform to active mode for existing SWAT	ate an operational forecast setups
11:20 – 11:40	Rodrigo Miranda	Evaluation of water reso using the SWAT model	ources of the Mundaú basin
11:40 – 12:00	Md. Ariful Islam	· · · ·	Real-Time Flood Forecasting; River flooding, November –

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11:00 – 12:30	SESSION 12: Climate Change Building D.2.18	e Applications Moderator: Subira Eva Munishi, UDSR, Tanzania
11:00 – 11:20	Philip Gassman	The Application of SWAT for Developing Climate Model Evaluation Metrics within a Heirarchical Framework
11:20 – 11:40	Anastassi Stefanova	Assessement and comparison of socio-economic and climate change impacts on water resources in four European lagoon catchments
11:40 – 12:00	Victor Ella	Assessing the Impacts of Climate Change on Dependable Flow and Potential Irrigable Area Using the SWAT model: The Case of Maasin River Watershed in Laguna, Philippines
12:00 – 12:20	Carlos Antonio Fernandez Palomino	Evaluation of future climate change impacts on hydrologic processes in the Peruvian Altiplano region using SWAT
11:00 – 12:30	SESSION 13: Hydrology Building D.2.19	<b>Moderator:</b> Faith Githui, Department of Economic Development, Australia
11:00 – 11:20	Georgios Bariamis	Hydrologic response to land use changes in Upper East Fork White River
11:20 – 11:40	Faith Githui	Overcoming the challenges in hydrological modelling of irrigated catchments in SE Victoria
11:40 – 12:00	Isared Kakarndee	Application of SLEEP and SWAT models for estimating streamflow with incomplete soil data in Krasioa basin, Thailand
12:00 – 12:20	Ekasit Kositsakulchai	Simulation of runoff changes based-on land use/cover in Lam Pachi basin by CA-Markov and SWAT models

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12:30 – 13:30	<b>LUNCH</b> VUB Cafeteria		
13:30 – 15:00	SESSION J1: Model Develop Building D.2.16	oment	<b>Moderator:</b> Jeff Arnold, USDA-ARS
13:30 – 13:50	Celray James Chawanda	Easy to Use Workflows for Towards Reproducible N	or Catchment Modelling: Model Studies
13:50 – 14:10	Martin Lacayo	SWAT Interoperability U	sing Web Service Workflows
14:10 – 14:30	Juan Luis Lechuga Crespo	Developing a hydrogeoc implementation in SWA	hemical model for T model at the global scale
14:30 – 14:50	Seonggyu Park	Coupling the SWAT+ and enhanced surface / subs watersheds	
13:30 – 15:00	SESSION J2: Climate Change Building D.2.18	e Applications	<b>Moderator:</b> Anastassi Stefanova, UFZ-Helmholtz Centre for Environmental Research
13:30 – 13:50	Josiclêda Galvincio	Using the SWAT model t under climate changes c watershed, Pernambuco	
13:50 – 14:10	Emmanuel Obuobie	SWAT-based simulation water and sediment inflo	of climate change impact on ow to Lake Volta in West
14:10 – 14:30	Nina Zarrineh	Assessing impacts of clin land management strate	nate change on priorities for egies
14:30 – 14:50	Md. Ariful Islam		on Flooding: a case study of ahmaputra-Jamuna River at

13:30 – 15:00	SESSION J3: Hydrology Building D.2.19	<b>Moderator:</b> Shreedhar Maskey, UNESCO-IHE
13:30 – 13:50	David Rivas-Tabares	Crop rotation implications in water balance through land use change scenarios using SWAT model
13:50 – 14:10	Srishti Singh	Web Based Water Resources Information System Using SWAT model
14:10 – 14:30	Cheng Sun	The multiple imputation approaches for interpolating rainfall data series and their applications to watershed models

15:00 – 16:00 **CLOSING SESSION** 

Aula Qb

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