

International Symposium of Ecohydrology and Water Security:

Opportunities & Challenges from Developing Countries

Programme

Data & Time: 8:30-18:00, October 16 - 18, 2018

Venue: 3rd Floor, Long March International Hotel

1st, West Road, High-tech Zone, Xi'an, Shaanxi, China

Time	Schedule
Training Course: Ecohydrology course - from solutions to real implementation (13-15, October) Lecturer: Prof. Luís Chicharo <i>For details please see attachment</i>	
Tuesday 16 October	
9:00-23:00	Registration
Wednesday 17 October	
8:00-8:30	Registration
8:30-9:00	Opening Ceremony Moderator: Academician Jun Xia , Professor, Academician of Chinese Academy of Sciences (CAS), China; Honorary Vice President of IAHS; Former President of IWRA.
	Lihong Guo , Representative of Northwest University (NWU), China
	Giuseppe Arduino , Chief of Section on Ecohydrology, Water Quality and Water Education, UNESCO-International Hydrological Programme (IHP), Italy
	Maciej Zalewski , Professor, European Regional Centre for Ecohydrology, Polish Academy of Sciences, Poland
	Callum Clench , Executive Director of International Water Resources Association (IWRA), France
9:00-10:15	Keynote Presentation Moderator: Prof. Hans Dencker Thulstrup , Senior Program Specialist, UNESCO Jakarta Regional Science Bureau for Asia and the Pacific, Indonesia
9:00-9:25	Prof. Maciej Zalewski , Professor, European Regional Centre for Ecohydrology, Polish Academy of Sciences, Poland New Dimensions of Environment Law – Sustainability

9:25-9:50	Academician Jun Xia , Professor, Academician of Chinese Academy of Sciences (CAS), China; Honorary Vice President of IAHS; Former President of IWRA. Development and Perspective of Ecohydrology in China
9:50-10:15	Mr. Callum Clench , Executive Director of International Water Resources Association (IWRA), France Advantage and Advancement of IWRA and its Practice in Water and Ecosystem (To Be Confirmed)
10:15-10:45	<i>Group Photo and Coffee Break</i>
10:45-12:00	Keynote Presentation Moderator: Prof. Zhi Chen , Professor, Department of Building, Civil & Environmental Engineering, Concordia University, Canada
10:45-11:10	Academician Changming Liu , Academician of Chinese Academy of Sciences (CAS), China Water Problems and Water Science Study in China
11:10-11:35	Prof. Giuseppe Arduino , Chief of Section, UNESCO-International Hydrological Programme (IHP), Italy Use of Ecohydrology Demonstration Sites to Enhance Ecosystems Carrying Capacity and Services at Catchment Scale - Ecohydrology Programme of UNESCO-IHP
11:35-12:00	Prof. Ninglian Wang , Professor, Director, Shaanxi Key Laboratory of Earth Surface System and Environmental Capacity, Northwest University, China Changes of Glaciers in the Mountains along the Silk Road over the Past 50 Years
12:00-13:30	<i>Lunch</i>
13:30-15:35	Keynote Presentation Moderator: Prof. Joana Lessa , UNESCO Chair in Ecohydrology at the University of Algarve, Portugal
13:30-13:55	Prof. Luís Chicharo , Professor, International Centre for Coastal Ecohydrology, University of Algarve, Portugal Ecohydrology Solutions for Restoring Estuarine and Coastal Ecosystems Functions Impacted by Dams: the Case of Guadiana (SW, Portugal)
13:55-14:20	Prof. Lu Zhang , Professor, Canberra Laboratories, CSIRO Land and Water, Australia Understanding the Impact of Climate and Landuse Change on Ecohydrological Processes
14:20-14:45	Prof. Zongxue Xu , Professor, College of Water Science, Beijing Normal University, China Distributed Ecohydrological Model: Eco-GISMOD in the Heihe River Basin

14:45-15:10	Prof. Hans Dencker Thulstrup , Senior Program Specialist, UNESCO Jakarta Regional Science Bureau for Asia and the Pacific, Indonesia Ecohydrology Solutions for Sustainable Management in Indonesia and Asia and the Pacific
15:10-15:35	Prof. Yaning Chen , Professor, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography Chinese Academy of Sciences Urumqi, China Global Warming Accelerates the Degradation of Desert Vegetation in the Central Asia
15:35-15:50	<i>Coffee Break</i>
15:50-17:30	Keynote Presentation Moderator: Prof. Xiaohua Wei , Professor, Irving K. Barber School of Arts and Sciences, University of British Columbia, Canada
15:50-16:15	Prof. Jim Nickum , Editor-in-Chief of Water International, Former Vice-President of International Water Resources Association (IWRA), USA Smart Water Management and Panta Rhei
16:15-16:40	Prof. Joana Lessa , Professor, Senior Lecturer, UNESCO Chair in Ecohydrology at the University of Algarve, Portugal Digital Media in Water Museums: for the Communication and Disseminating of Scientific Contents
16:40-17:05	Prof. Genxu Wang , Professor, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China The Water and Energy Transportation of SPAC in Cold Regions
17:05-17:30	Prof. Pozdniakov Sergey Pavlovich , Professor, Head of Hydrogeology Department, Faculty of Geology, Moscow State University, Russia Simulation of the Effect of Climatic Variability on the Long-Term Variability of Groundwater Runoff in a Small River Basin
17:30-18:30	Panel Section Moderator: Prof. Philippe Pypaert , Programme Specialist, Natural Sciences UNESCO Office in Beijing, Belgium
17:30-18:30	Topic: Perspective on Research and Application of Ecohydrology Panelists: Prof. Edyta Kiedrzyńska Prof. Hans Dencker Thulstrup Prof. Fariborz Haghighat Prof. Marco Albarracín Prof. Rahmah Elfithri Prof. Lu Zhang Prof. Xiaohua Wei
18:30	<i>Dinner</i>

Thursday 18 October	
Parallel Session	
8:30-10:00	<p>Parallel Session 1A: Ecohydrological processes and new technologies</p> <p>Moderators: Prof. Jinxi Song, Professor, College of Urban and Environmental Science, Northwest University, China Prof. Yanpeng Cai, Professor, State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China</p>
8:30-8:45	<p>Prof. Fadong Li, Professor, Institute of Geographic Sciences and Natural Resources Research, CAS, China Recharge Sources of the Ebinur Lake in the Dry Land Northwestern China</p>
8:45-9:00	<p>Prof. Pengfei Li, Associate Professor, Xi'an University of Science and Technology, China Comparison of Soil Erosion Models Used to Study the Chinese Loess Plateau</p>
9:00-9:15	<p>Prof. Jianqin Ma, Professor, North China University of Water Resources and Electric Power, China Analysis of Hydrologic Drought Frequency in Shaying River Basin Based on Three-Dimensional Copula Function</p>
9:15-9:30	<p>Prof. Xingguo Mo, Professor, Institute of Geographic Sciences and Natural Resources Research, China Ecohydrological Evolution in North China and its Attribution</p>
9:30-9:45	<p>Prof. Yiping Wu, Professor, Institute of Global Environmental Change, Department of Earth & Environmental Science, Xi'an Jiaotong University, China Spatio-Temporal Analysis of the Hydro-Biogeochemical Processes in a Typical Loess Watershed</p>
9:45-10:00	<p>Prof. Li Chen, Associate Professor, Desert Research Institute (DRI), USA Rainfall-Runoff Process and its Ecohydrologic Impact in Semi-Arid Environments</p>
10:00-10:15	<i>Coffee Break</i>
10:15-12:15	<p>Parallel Session 1B: Ecohydrological processes and new technologies</p> <p>Moderators: Prof. Jingjie Yu, Deputy Director of Key Laboratory of Land Water Circulation and Surface Process of CAS, China Prof. Li Chen, Associate Professor, Desert Research Institute (DRI), USA</p>

10:15-10:30	Prof. Jinxi Song , Professor, College of Urban and Environmental Science, Northwest University, China Ecohydrological Processes of Stream Hyporheic Zone
10:30-10:45	Dr. Marcin Kiedrzyński , Head of Laboratory of Plant Ecology and Adaptation Department of Geobotany and Plant Ecology, University of Łódź, Poland Plants in Ecohydrological Action: Examples from Natural and Constructed Systems
10:45-11:00	Prof. Hongkai Gao , Professor, East China Normal University, China A Simple Topography-Driven and Calibration-Free Runoff Generation Module
11:00-11:15	Prof. Pengtao Yu , Chief of Forest Hydrology Research Group, Research Professor, Research Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forestry, China A Calculation System on Vegetation Carrying Capacity Based on Water Resources
11:15-11:30	Prof. Xiang Zhang , Professor, Wuhan University, China Water Use Mechanism of Plants in the Wetland under the Changing Relationship between Yangtze River and Poyang Lake
11:30-11:45	Prof. Guangju Zhao , Professor, Northwest A&F University; Institute of Soil and Water Conservation, China Vegetation Restoration Capacity and the Impacts on Water Yield on Loess Plateau
11:45-12:00	Prof. Changsen Zhao , Professor, Beijing Normal University, China UAV Flight to Calculate Discharge in Middle- and Small-Scaled Rivers by Modifying AMHG
12:00-12:15	Prof. Chang Huang , Associate Professor, College of Urban and Environmental Sciences, Northwest University, China Advances in Surface Water Monitoring Using Satellite Based Optical Sensors
8:30-10:00	Parallel Session 2A: Water security and ecosystem-related issues Moderators: Prof. Fariborz Haghghat , Concordia Research Chair - Energy & Environment, Department of Building, Civil and Environmental Engineering, Concordia University, Canada Prof. Tiejun Wang , Professor, Institute of Surface-Earth System Science, Tianjin University, ISESS, China
8:30-8:45	Dr. Makarius Lalika , Doctoral, Sokoine University of Agriculture (SUA) Morogoro, Morogoro, Tanzania Linking Ecohydrology and Irrigated Agriculture as Adaptation Strategy in Water and Climate Stressed Environment along the Pangani River Basin Tanzania
8:45-9:00	Prof. Guoyu Qiu , Professor, Peking University, China Urban Evapotranspiration and its Cooling Effect on Urban Heat Island

9:00-9:15	Dr. Gary Feng , Research Soil Scientist, Genetics and Sustainable Agriculture Research Unit, United States Department of Agriculture-Agriculture Research Service, USA Eco-Hydrological Process-Based Integrated Water Resources Management for Water Security in Agroecosystem
9:15-9:30	Prof. Caihong Hu , Professor, Zhengzhou University, China Impacts of Land-Use Cover Changes on Flooding: a Case Study of Fen River in the Yellow River, China
9:30-9:45	Prof. Shouhong Zhang , Associate Professor, School of Soil & Water Conservation, Beijing Forestry University, China Impacts of Climate Change on Water Saving and Stormwater Management Efficiency of Urban Rainwater Harvesting Systems
9:45-10:00	Prof. Mingfang Zhang , Associate Professor, University of Electronic Science and Technology, China Ecohydrological Sensitivity of Large Watersheds across Climatic Gradient in China
10:00-10:15	<i>Coffee Break</i>
10:15-12:15	Parallel Session 2B: Water security and ecosystem-related issues Moderators: Prof. Hongwei Lu , Professor, Institute of Geographic Sciences and Natural Resources Research, CAS, China Prof. Xianli Xu , Professor, Institute of Subtropical Agriculture, CAS, China
10:15-10:30	Prof. Huaïen Li , Professor, Xi'an University of Technology, China Compensation for Agricultural Economic Losses Caused by Protection of River Ecological Basic Flow in Water Shortage Area
10:30-10:45	Prof. Jiake Li , Professor, Xi'an University of Technology, China Sponge City Construction and Urban Water Environment Safety - Take Xi'an Region as an Example
10:45-11:00	Prof. Huapeng Qin , Professor, Peking University Shenzhen Graduate School, China Measuring the Effects of Low Impact Development on Hydrological and Thermal Environment in a Building District in Shenzhen, China
11:00-11:15	Prof. Xun Sun , Professor, East China Normal University, China Study Water Security Problem with Climate Big Data
11:15-11:30	Prof. Zhi Li , Professor, College of Natural Resources and Environment, Northwest A&F University, China Land Use Change Impacts on Quantity and Quality of Recharge Water on the Loess Tablelands

11:30-11:45	Prof. Ping Wang , Associate Professor, Institute of Geographic Sciences and Natural Resources Research, CAS, China Eco-Hydrology of Regulated Dryland River Basins: Insights from Surface–Groundwater Interactions in Riparian Zone
11:45-12:00	Ms. Chunying Wang , Lecturer of North China University of Water Resources and Electric Power, China Adsorption of Ammonium in the Soil-Water Environment and the Effect Factors in a Typical Irrigation District of North China Plain
12:00-12:15	Ms. Ranran Li , Lecturer, Northeast Agricultural University, China The Water Environment Evolution and Ecological Risk Assessment of Chagan Lake Wetland
8:30-10:00	Parallel Session 3A: Ecohydrology forum for young scientists Moderators: Prof. Edyta Kiedrzyńska , Professor, European Regional Centre for Ecohydrology, Polish Academy of Sciences, Poland Prof. Xun Sun , Professor, East China Normal University, China
8:30-8:45	Mr. Obikoya Ismaila Bamidele , Environmental Aesthetic and Associate Limited, Nigeria Efficacy of Communication in Water Resource Management and Environmental Sustainability
8:45-9:00	Prof. Yongyong Zhang , Associate Professor, Institute of Geographic Sciences and Natural Resources Research, CAS, China A Balanced Calibration of Water Quantity and Quality by Multi-Objective Optimization for Integrated Water System Model
9:00-9:15	Mr. Andrew Warner , CDM Smith, USA Implementing the Reserve (Environmental Flows) through Water Allocation Planning in the Rufiji Basin, Tanzania
9:15-9:30	Dr. Chao Chen , Postdoctoral, University Dr Boise, USA Study of Geophysical Mitigation Potentials on Subsurface Flow with Dominant Influences from Surface Processes
9:30-9:45	Dr. Yi He , Lecturer, College of Urban and Environmental Science, Northwest University, China Quantitative Contribution of Climate Change and Human Activities to Runoff Changes in the Ba River Watershed of the Qinling Mountains, China
9:45-10:00	Mr. Yongde Kang , PhD student, School of Water Resources and Hydroelectric Engineering, Xi'an University of Technology, China Efficient Modelling Techniques for High-Resolution Sediment Transport Simulation
10:00-10:15	<i>Coffee Break</i>

10:15-12:15	<p>Parallel Session 3B: Ecohydrology forum for young scientists</p> <p>Moderators: Prof. Minjian Chen, Professor, Deputy Chief Engineer of China Institute of Water Resources and Hydropower Research (IWHR), China</p> <p style="text-align: center;">Prof. Chun Fu, Professor, Nanchang University, China</p>
10:15-10:30	<p>Mr. Habib Ur Rehman, PhD Student of Northwest University, China Ground Water Quality Profile at Different Depth from Drilled Well</p>
10:30-10:45	<p>Mr. Manish Kumar, Ashoka Trust for Research in Ecology and the Environment (ATREE), India Spatio-Temporal Variability and Long-Term Changes in Rainfall across Sikkim Himalaya with Special Emphasis of Extreme Events</p>
10:45-11:00	<p>Mr. Jinxin Dong, PhD Student of Concordia University, Canada Assessing the Risk of Antibiotics on Eco-Environment Using an Environmental Multimedia Modeling Approach</p>
11:00-11:15	<p>Mr. Tao Lu, Geosphere Environmental Technology Corporation, Japan A New Approach for Predicting Locations of Shallow Slope Failures at Heavy-Rainfall, Using Surface-Water/Groundwater-Coupled Hydraulic Simulation</p>
11:15-11:30	<p>Mr. Asif Jamal Khan, PhD Student of College of Urban and Environmental Science, Northwest University, China Removal of Reactive Dyes from Textile Effluents Using Mesoporous Silica Nano Particles</p>
11:30-11:45	<p>Mr. Ashutosh Kumar Mishra, CSIR National Environmental Engineering Research Institute Nagpur Maharashtra, India Modeling of Soil Characteristics and Root Water Uptake in Orange Orchards for Sustainable Use of Water Resources in Central India</p>
11:45-12:00	<p>Dr. Amer Alsouliman, Research Fellow PhD Student, University of Ferrara, Italy Water-Management in Arabian's Northwest Badia (Desert) Hydrological and Archaeological Approaches</p>
12:00-12:15	<p>Ms. Yiping Hou, Student of University of Electronic Science and Technology, China The Effect of Vegetation Regrowth on Annual Runoff in the Hailiutu Watershed, the Upper Reach of the Wuding River Basin</p>
12:15-13:30	<p><i>Lunch</i></p>
13:30-15:35	<p style="text-align: center;">Keynote Presentation</p> <p>Moderator: Prof. Giuseppe Arduino, Chief of Section, UNESCO-International Hydrological Programme (IHP), Italy</p>

13:30-13:55	<p>Prof. Philippe Pypaert, Programme Specialist, Natural Sciences UNESCO Office in Beijing, Belgium</p> <p>Ecohydrology – a Bridge between Two Intergovernmental Programmes of UNESCO: the International Hydrological Programme and the Man and the Biosphere (MAB) Programme</p>
13:55-14:20	<p>Prof. Xiaoyan Li, Professor, Faculty of Geographical Science, Beijing Normal University, China</p> <p>Climate/Land-Use Changes and Ecohydrology in High-Altitude Qinghai Lake Watershed on the Qinghai-Tibet Plateau</p>
14:20-14:45	<p>Prof. Edyta Kiedrzynska, Professor, European Regional Centre for Ecohydrology, Polish Academy of Sciences, Poland</p> <p>Ecohydrological Analysis of Water Availability and an Anthropogenic Pollution from Global to Regional Scale - Nature-Based Solutions as a Key Point in a River Basin Management</p>
14:45-15:10	<p>Prof. Xiaohua Wei, Professor, Irving K. Barber School of Arts and Sciences University of British Columbia, Canada</p> <p>Global Assessment on Forests and Water</p>
15:10-15:35	<p>Prof. Rahmah Elfithri, Senior Lecturer/Researcher Fellow, Institute for Environment and Development (LESTARI), University Kebangsaan, Malaysia</p> <p>Ecohydrology in Malaysia: the Implementation through Demonstration Project at Putrajaya Lake and Wetlands Catchment</p>
15:35-15:45	<i>Coffee Break</i>
15:45-17:50	<p>Keynote Presentation</p> <p>Moderator: Ninglian Wang, Professor, Director, Shaanxi Key Laboratory of Earth Surface System and Environmental Capacity, Northwest University, China</p>
15:45-16:10	<p>Prof. Marco Albarracin, Coordinator of Ecohidrology Program, Gerente Tecnico, Ingeraleza, Quito, Ecuador</p> <p>Recovering the Ancestral Water System of the Preincaic Culture “Los Paltas” with Ecohydrological Approach to Supply Water to the City of Catacocha in Southern Ecuador</p>
16:10-16:35	<p>Prof. Yanhui Wang, Professor, Research Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forestry, China</p> <p>The Daily Transpiration and Model-Based Effect Assessment of Environment and Vegetation Conditions for a Larch Plantation in Semi-Arid Northwest China</p>
16:35-17:00	<p>Prof. Yongqin Chen, Professor and College Mater, School of Humanities and Social Science, The Chinese University of Hong Kong (Shenzhen)</p> <p>Water Security in the Face of Climate Change and Extreme Weather</p>

17:00-17:25	Dr. Makarius Lalika , Doctoral, Sokoine University of Agriculture (SUA) Morogoro, Morogoro, Tanzania Integrating Ecohydrology and Domestic Water Supply: a Contingent Valuation Perspectives along Wami-Ruvu River Basin, Tanzania
17:25-17:50	Prof. Qiang Zhang , Professor, Beijing Normal University Soil Moisture Changes across China: Changing Pattern and Causes
17:50-18:20	Closing Ceremony Moderator: Prof. Zhi Chen , Professor, Department of Building, Civil & Environmental Engineering, Concordia University, Canada
18:20	<i>Dinner</i>

Poster Programme	
P1	Ms. Yanping Cao , PhD Student of the College of Environment and Planning of Henan University, China Spatio-Temporal Change of Vegetation and Hydrology Factors over North China Plain from 2002 to 2016
P2	Dr. Xuemei Liu , PhD Student of Northeast Institute of Geography and Agroecology, CAS, China The Impact of Water Management Practices on the Water Quality of Chagan Lake in Northeast China
P3	Ms. Haixiang Zhou , Student of State Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau, Institute of Soil and Water Conservation, CAS & MWR, China Characteristics and Influencing Factors of Parameter Alpha in the Nonlinear Advection-Aridity Method on the Inter-annual Scale in the Loess Plateau

Attachment 1:

Training Course

Data & Time: 9:00-18:00, October 13-15, 2018

Venue: Northwest University, China

No 1. Xuefu Road, Chang'an District, Xi'an, China

Since all participants have been confirmed, new application for the course will no longer be accepted.

Time	Schedule
Saturday 13 October	
9:00-12:00	Registration of participants
12:00-14:30	<i>Lunch</i>
14:00-14:45	Introduction to Ecohydrology
14:45-15:00	<i>Coffee Break</i>
15:00-15:45	River to Coast Eco-Hydrologic Processes
15:45-16:00	<i>Coffee Break</i>
16:00-16:45	Coastal Ecohydrology Case Studies
18:00	<i>Dinner</i>
Sunday 14 October	
9:00-9:45	Ecosystem Services and Economic Valorization
9:45-10:00	<i>Coffee Break</i>
10:00-12:00	Economic Valorization, Discussion, Preparation of Working Themes
12:00-14:00	<i>Lunch</i>
14:00-17:00	Tutorial for Project Team Work on Coastal EH Topic Selected by the Students
18:00	<i>Dinner</i>
Monday 15 October	
9:00-12:00	Presentation and Discussion of Group Projects
12:00-14:00	<i>Lunch</i>
14:00-15:00	Discussion and Summary
18:00	<i>Dinner</i>