

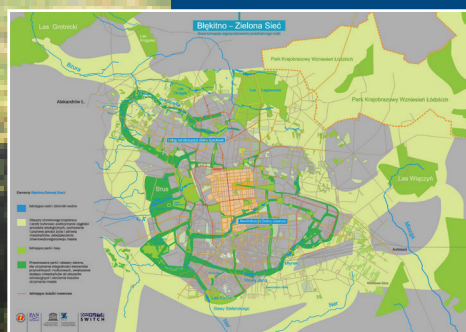
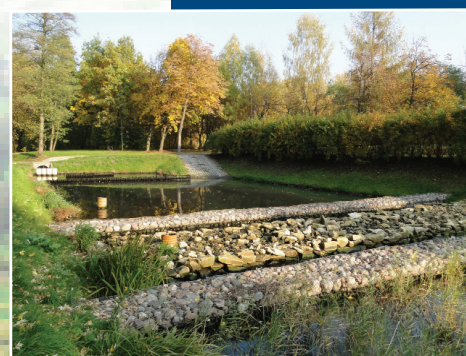
FIRST ANNOUNCEMENT

# ECOHYDROLOGY, BIOTECHNOLOGY & ENGINEERING

Towards the Harmony between Biogeosphere and Society  
on the basis of Long Term Ecosystem Research

2013  
16-22nd September  
ŁÓDŹ  
POLAND

*Symposium organised within*  
The United Nations International Year of Water Cooperation 2013



INTERNATIONAL INAUGURATION OF THE

## GREEN FUTURE PROGRAMME

Environmental biotechnologies for development of  
intelligent specialisation of the Region

In keeping with The International Week of Bioeconomy in the Lodzkie Region

Organisers:



Co-Organisers:



Honorary Auspices:



Supported by:



[www.ecohydrologyengineeringssociety2013.org](http://www.ecohydrologyengineeringssociety2013.org)

Registration is now open

# ECOHYDROLOGY, BIOTECHNOLOGY & ENGINEERING

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## ► Organisers:



European Regional Centre for Ecohydrology u/a UNESCO, Lodz, Poland



University of Lodz, Poland



Project Life+ EnvEurope, Environmental quality pressures assessment  
across Europe project (LIFE08 ENV/IT/000339)

## ► Co-Organisers:



U.S. Army Corps of Engineers (USACE), Institute for Water  
Resources, USA



Municipal Company of Water Supply and Sewage System  
in Lodz, Poland



The Chartered Institution of Water and Environmental Management  
(CIWEM), Rivers & Coastal Group, U.K.



Collective Wastewater Treatment Plant (GOS) in Lodz,  
Poland



International Society of Limnology (SIL)



International Centre for Coastal Ecohydrology u/a UNESCO (ICCE),  
Portugal



Infrastructure Company (LSI) in Lodz, Poland



Marshal's Office of the Lodz Region, Poland

## ► Supported by:



LTER-Europe Network (European Long Term Ecosystem Research)



Project „Innovative resources and effective methods of safety improvement and durability of  
buildings and transport infrastructure in the sustainable development” (POIG 512/040003)



Project Life+ ECOROB, Ecotones for reducing diffuse pollution, Poland



Project Life + EH-REK, Ecohydrologic rehabilitation of recreational reservoirs “Arturówek”  
(Łódź) as a model approach to rehabilitation of urban reservoirs, Poland

► Honorary  
Auspices



Ministry of Science  
and Higher Education  
Republic of Poland



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## ► Steering Committee

**Maciej Zalewski, Chairman of the Steering Committee**, Director of the European Regional Centre for Ecohydrology u/a UNESCO, Poland

**Graham Piper, co-Chairman of the Steering Committee**, Chairman of The Chartered Institution of Water and Environmental Management (CIWEM), Rivers & Coastal Group, U.K.

**Robert A. Pietrowsky, co-Chairman of the Steering Committee**, Director of Institute of Water Resources (IWR), U.S. Army Corps of Engineers (USACE), U.S.A.

**Włodzisław Nykiel**, Rector of the University of Lodz, Poland

**Witold Stępień**, Marshal of the Lodz Region, Poland

**Eugene Z. Stakhiv**, Member of U.S. Army Corps of Engineers (USACE), Institute of Water Resources (IWR), U.S.A.

**Michael Mirtl**, Chair of LTER - Europe, Environment Agency, Austria

**Alessandra Pugnetti**, EnvEurope Coordinator, National Research Council (CNR), Italy

**Shahbaz Khan**, Deputy Director, Asia and the Pacific Regional Science Bureau of UNESCO based in Jakarta, Indonesia

**William J. Mitsch**, The Conference Chair of the 4th International Ecosummit 2012, Ohio, U.S.A; Distinguished Professor of Environment and Natural Resources, Florida Gulf Coast University, US

**Brian Moss**, Director of International Society of Limnology (SIL), U.K.

**Luis Chicharo**, Director of the International Centre for Coastal Ecohydrology u/a UNESCO (ICCE), Algarve, Portugal

**Mieczysław S. Ostojki**, Director of the Institute of Meteorology and Water Management - National Research Institute (IMGW-PIB), Poland

**Anna Rogut**, Director of the Centre of Excellence in Knowledge-based Economy KNOWBASE, Poland

**Tomasz Bergier and Jakub Kronenberg**, Sendzimir Foundation Board, NGO, Poland

**Kinga Krauze**, Co-Chair of LTER - European Network, European Regional Centre for Ecohydrology u/a UNESCO, Poland

**Iwona Wagner, Convenor of the Symposium**, European Regional Centre for Ecohydrology u/a UNESCO, Poland

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## ► Scientific Committee

**Blanca Jimenez-Cisneros, Chairman of the Scientific Committee**, Director of the Division of Water Sciences, Secretary of the International Hydrological Programme (IHP)

**Stanisław Bielecki**, Rector of the Technical University of Lodz, Poland

**Patrick S. Bourgeron**, ILTER Science and Programs Committee, ILTER Project coordinator, NSTAAR - An Earth and Environmental Systems Institute, CU-Boulder, Colorado, USA

**Leon Braat**, Chair of Management Board, ALTER-Net, Senior Researcher International Biodiversity Policy, Alterra, Wageningen-UR, The Netherlands

**Pascal Breil**, Member of National Institute for Environmental and Agricultural Science and Research (IRSTEA), France

**Johannes Cullmann**, Chair of the Intergovernmental Council of the International Hydrology Programme (IHP) of UNESCO, Germany

**Martin Dokulil**, Austrian Academy of Sciences, Institute of Limnology, Mondsee, Austria

**Hery Harjono**, Deputy Chairman for Earth Sciences Indonesian Institute of Sciences (LIPI); Director of Asia Pacific Centre for Ecohydrology (APCE), Indonesia, Asia Pacific Centre for Ecohydrology (APCE), Indonesia

**Georg Janauer**, Department of Limnology, University of Vienna, Austria

**Iwona Jasser**, Vice-President of the Polish Hydrobiological Society, Poland

**Stanisław Kaniszewski**, Manager of Vegetable Cultivation and Fertilization Department, Research Institute of Horticulture in Skierniewice, Poland

**Zbigniew Kundzewicz**, Chairman of the Committee for Research on Water-related Risks, Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poland

**Basant Maheshwari**, Member of American society of Agricultural and Biological Engineers, University of Western Sydney, Australia

**Lech Michalczyk**, Deputy Director for Scientific Affairs, Research Institute of Horticulture in Skierniewice, Poland

**Tadanobu Nakayama**, Senior Researcher, National Institute for Environmental Studies (NIES), Japan

**Gunnar Nützmann**, Head of the Department Ecohydrology at Leibnitz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany

**Tomasz Okruszko**, Head of the Department of Hydraulic Engineering, Warsaw University of Life Sciences (SGGW), Poland

**Sławomir Ratajski**, The Secretary-General of the UNESCO Polish Committee, Poland

**Azime Tezer**, Urban and Regional Planning faculty member at Istanbul Technical University, Istanbul Technical University, Turkey

**Jose G. Tundisi**, Director of the International Institute of Ecology in Sao Carlos, Brazil

**Wojciech Wąsowicz**, Head of the Department of Toxicology and carcinogenesis, Nofer Institute of Occupational Medicine, Poland

**Martin Whiting**, Immediate Past Chairman, CIWEM Rivers & Coastal Group, Haskoning UK Ltd., UK

**Jun Xia**, Past President of International Water Resources Association (IWRA); Chair Professor & Dean, The Research Institute for Water Security (RIWS); Wuhan University, & Distinguished Professor, Chinese Academy of Sciences, China

**Demin Zhou**, UNESCO Chair in Hydroinformatics for Ecohydrology, Capital Normal University, China

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## ► Rationale

### Why did UN decide Ecohydrology as a new paradigm?

In the Anthropocene Era, when we live in, almost 70% of the Earth's surface has been highly modified by humans, what eventually led to emerging of "novel ecosystems". Now, when humanity approaches the limits of global carrying capacity, and the parallel degradation of global environment and population growth aggravated by climate change, may end up with yet another "tragedy of the commons", the paradigm shift towards more sustainable management of natural resources seems to be the future of life.

Water has always been the key driver of biogeochemical evolution of biosphere. In the escalating global climate changes it is, and will continue to be, the limiting factor to achieve sustainable development in many areas of the World. Current activities seems to neglect the fact that our existence on Earth inevitably depend on our ability to profoundly understand, maintain and re-establish fundamental long-term climatic, hydrological and ecological processes across scales. Prioritizing short-term management, we risk increase of uncertainty of both ecological and social systems.

In 1997 International Hydrological Programme of UNESCO adopted ecohydrology as a foundation of new scientific approach and paradigm in integrated water management for sustainability. As a management paradigm, ecohydrology extends the perspective from environmental protection and controlling environmental hazards towards identification of the hierarchy of regulatory processes, with special emphasis on interplay between water and biota. As environmental science, ecohydrology embraces engineering and technology ability to increase efficiency of resource use, prolongation of living cycle of products and lowering emissions, and integrates it with the capacity of ecosystems. In the current phase it proposes to involve long-term socio-ecological research in defining the areas of possible augmentation of natural capital, compromising over life style and sustainability, and better engagement of engineering in maintenance of ecological functions towards more sustainable development.

Both technology and system solutions have now progressed enough to develop a dialogue on integration of the efforts between ecohydrologists, engineers, and social and economic scientists to contribute to ecologically sound solutions towards harmony between the biogeosphere and humanity.

The symposium is organised within the framework of UN International Year of Water Cooperation 2013.

The Symposium will provide a transdisciplinary, international floor to move forwards discussion on the conclusions of the 4th International Ecosummit (Columbus, Ohio, USA, 2012), presented in the "Columbus Declaration: Harmonization of Societal Needs with the EcoSphere in the Anthropocene Era".

The Symposium is organised within the Green Future Program, integrating the research potential of the Lodzkie Region for bioeconomy - intelligent specialization using biotechnologies for sustainable development and environmental management.

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## ► Symposium plan, social events and technical trips

### 1. Monday, 16th September

Introductory technical trip: Ecohydrological biotechnologies demonstration sites at Pilica River basin

Trip hosted by:



### 2. Tuesday, 17th September

Official opening of the Symposium, including opening and plenary lectures

Opening of the Symposium hosted by:



University of  
ŁÓDŹ

### 3. Wednesday, 18th September

Symposium sessions

Field trip: Urban ecohydrology - storm water sequential purification system and conversion of sewage sludge into biomass experiment.

Venue: City of Lodz Sokolowka River / Waste Water Treatment Plant (GOŚ)

Trip hosted by:



### 4. Thursday, 19th September

Symposium sessions

EnvEurope Workshop: Water as a driver for enhancement of resilience and tool for harmonisation of eco-system potential with social needs in the context of long-term ecological research

Workshop hosted by:



### 5. Friday and Sunday, 20th-22nd September

Field trip: Beauty of hydrogenic landscapes - The West Polesie LTSE

Trip hosted by:



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## ► Proposed sessions

### Opening of The Symposium:

Opening lecture will be delivered by Prof. William J. Mitsch, The Conference Chair of the 4th International Ecosummit

		Hosted by:
<b>Session 1:</b>	Integration of environmental knowledge and engineering for identification of key challenges and potential solutions Session Chair: <i>to be published in second announcement</i>	
<b>Session 2:</b>	The perspective of integration of ecohydrology and biotechnologies with engineering approaches Session Chair: <i>to be published in second announcement</i>	
<b>Session 3:</b>	Systemic solutions and modelling in river basin assessment & management Session Chair: <i>to be published in second announcement</i>	
<b>Session 4:</b>	Analysing long-term ecological trends and forecasting ecosystems status in the face of global change Session Chair: <i>to be published in second announcement</i>	
<b>Session 5:</b>	Harmonizing ecosystem potential with societal needs on the basis of mapping of human impact and ecosystem services Session Chair: <i>to be published in second announcement</i>	
<b>Session 6:</b>	The necessity & opportunities for enhancement of resilience of socio-ecological systems under increasing uncertainty Session Chair: <i>to be published in second announcement</i>	
<b>Session 7:</b>	How integration of ecohydrology, biotechnologies and engineering can accelerate implementation of the four step strategy of the World EcoSummit 2012 Columbus Declaration Session Chair: <i>to be published in second announcement</i>	
<b>Session 8:</b>	Urban Ecohydrology - towards sustainable cities Session Chair: <i>to be published in second announcement</i>	
<b>Workshop 1:</b>	Water as a driver for enhancement of resilience and tool for harmonisation of ecosystem potential with social needs in the context of long-term ecological research Workshop Chair: <i>to be published in second announcement</i>	
<b>Workshop 2:</b>	Integrated approach towards sustainable city Workshop Chair: <i>to be published in second announcement</i>	
<b>Workshop 3:</b>	Transfer of knowledge and adaptation of methodologies and systems implementation to African conditions Workshop Chair: <i>to be published in second announcement</i>	

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## ► Deadlines

Registration:	<b>IS NOW OPEN</b>
Abstract submission:	June 30, 2013
The release of the Second Announcement of the Symposium	1st of July 2013
Abstracts review and information about approval:	July 31, 2013
Full paper submission:	August 31, 2013
Fee payment deadline:	
Early Bird:	June 30, 2013
Latecomers:	since 1st July 2013

## ► Symposium Fee and Registration

All symposium participants shall register via the symposium website using electronic registration tool.

The symposium fee:

Early Bird:	300 euro (250 for SIL and PTH members; 150 for students)
Latecomers:	350 euro (275 for SIL and PTH members; 175 for students)

The symposium fee covers the expenses for the symposium venue, symposium materials, mid-symposium tour and coffee breaks.

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## ► PUBLICATION OF THE SYMPOSIUM MATERIALS

### Call for Papers:

Contributions in accordance with the symposium topics as outlined above are welcome. Extended abstracts in English language are invited to be submitted to the Symposium Secretariat electronically. Based on reviewing process, authors will be invited to make an oral or poster presentation and to submit a full paper for a **special symposium issue of Ecohydrology & Hydrobiology Journal (ELSEVIER) to be published after the symposium**. The abstracts and papers must be written in English.

#### Guidelines for Abstract Preparation and Submission

The templates for abstract preparation and submission will be available at the symposium website:

[www.ecohydrologyengineeringsociety2013.org](http://www.ecohydrologyengineeringsociety2013.org).

Authors are advised to strictly follow the formats given in the template as other formats or paper/fax copies will not be accepted.



## ► Conference Venue

### THE CITY OF ŁÓDŹ

Lodz, the former textile industry empire, today is a city of modern technologies, culture and grand events. It is a metropolis, where a landscape of industrial architecture mixes with silhouettes of the 20th century office buildings, production halls, cultural and sports buildings. A small settlement, that in 1423 was granted civic rights, was thriving at the beginning of the 19th century. Lodz became one of the Europe's biggest and fastest growing textile industry centre. At that time, a new identity of the city - "a promised land" and "a city of many cultures" was created. The city where people of different nationalities and religions shared the same dream of a success and were determined to achieve it together.

Today the rhythm of life in Lodz is no longer driven by factories' sirens and rattling of looms' shuttles. The city is still attracting industrialists, who appreciate its central location, close proximity to the capital, investors - friendly policy, scientific and human resources. Lodz authorities undertake many actions in order to improve the city attractiveness - develop the airport, invest in new roads and quality of railway infrastructure. As a result, Lodz is located at the top of attractiveness ratings. It became a place of interest for such powerful companies as: Infosys, BSH, Gillette, Merloni, Fujitsu Services, Hutchinson and other household equipment manufacturers as well as finance and accounting centers of well known companies.

Lodz also constitutes a good example of advanced revitalization processes with Europe's famous Manufaktura among many. A few years back, architects and designers brought back to life this historic industrial complex of Izrael Poznański and changed it into modern trade, entertainment, culture and recreation centre. Nowadays the biggest challenge for the city is the revitalization process of historic thermal power plant EC-1 together with modernization of the area which is to become a New Centre of Lodz.

In the recent years, an identity of Lodz as a city of culture has been created. Former avant-garde and artistic experiment centre becomes a modern art centre. Museums look after the heritage of pre-war artists and young works of art change postindustrial interiors into avant-garde art centers. Growing every year calendar of Lodz festivals, became a cultural "brand" of our city - "Festival Lodz".

Lodz is also a city of young and active people. During the day one can meet them at twenty universities and during the night they can be found in one of Lodz pubs, hundred of which are located along the Piotrkowska street alone. Those who like green areas can spend their time in one of 30 parks, go to Łąkiwniki - the largest urban forest in Europe or have fun at "Fala" - a modern aqua park. The multipurpose hall built couple of years ago (one of the biggest building of this type in Poland) hosts the concerts of the world's biggest artists, sport games and grand fair events.



### THE POZNAŃSKI PALACE

The Poznanski Palace is known as one of the largest and greatest residence of its type. The Palace (built in XIX century) was bought by Jewish factory-owner Izrael Poznanski in the year 1877. The effort of many architects (mainly Hilary Majewski and Juliusz Jung), designers and artists resulted in the present shape of the building, which is much more decorative and comfortable than others in Lodz. The front of the palace is very interesting and has its ideological program. The building is decorated with copulas, pinnacles, and shields with monogram „P”, garlands of fruit and other architectural details. The main part of the building was designed in neo-baroque style. The main accent of the interior facade is the terraced portico. The palace is functionally connected with a huge cotton production plant, a housing estate for workers and other accompanying buildings. In the year 1975 the main part of the building was adapted by the Museum of History of City Lodz. Don't forget to visit beautiful garden, where you can see fabulous sculptures.

## ► Conference Venue

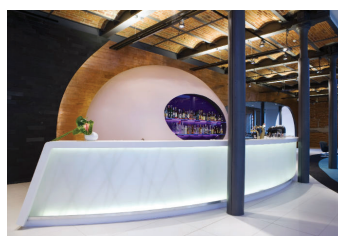
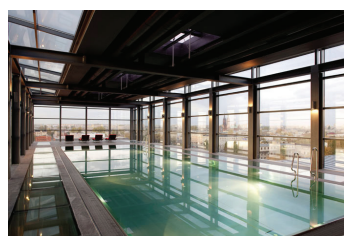
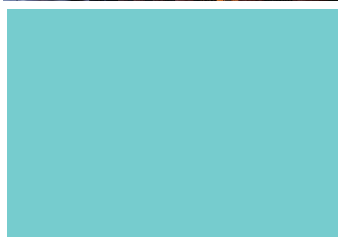
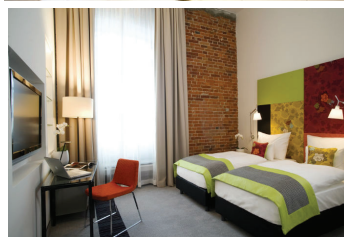
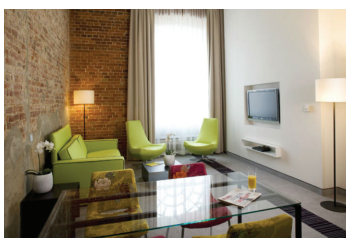
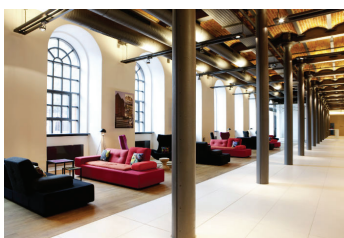
### Andel's Hotel Łódź

A red brick façade serves as eye-catcher for the 4-star Andel's Hotel Lodz. The location is an unusual one: a former textile mill on the grounds of the Manufaktura shopping, art and cultural centre. The innovative architecture is a dynamic weave of colours and forms, glass and textiles, furniture and works of art. The design harmonises wonderfully with the historic substance of the building, creating a hotel experience with a high level of comfort and artistic attraction.

Besides the 277 design rooms, suites and long-stay apartments, the hotel also features a 3,100 m<sup>2</sup> conference and events centre with state-of-the-art equipment, modern architecture and the largest ballroom in the city of Lodz (capacity 800 people).

Topping the large SPA & Fitness Centre area is a glass-enclosed swimming pool on the roof of the hotel. The Restaurant Delight and Oscar's Bar are popular meeting places for business meals, drinks or specialty coffees. With its panoramic views of the city, the Lounge Room steals the show.

<http://www.vi-hotels.com/en/andels-lodz/the-hotel/>



## ► Contact information

For scientific program opportunities  
please contact :

**Maciej Zalewski**

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Convenor of the Symposium

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For other queries and general questions related to the conference,  
including requests for invitation letters, please contact:

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[www.ecohydrologyengineeringssociety2013.org](http://www.ecohydrologyengineeringssociety2013.org)

