

INTRODUCTION

The Conference aims to bring together river scientists, engineers and practitioners to share and discuss recent scientific research on river functioning, river status evaluation and various aspects of river restoration, and to facilitate exchange of experiences on environment-friendly river restoration and maintenance, especially with regard to flood risk management and nature protection.

Contributions are welcome on any aspect of river restoration and maintenance, including presentations of practical examples and case studies of ongoing and completed restoration projects and implemented restoration techniques.

The Conference will include 8 academic sessions, plenary lectures, social events and field trips for the participants and for the accompanying persons (in Krakow and Małopolska region).

KEY DATES

Online expression of interest	October 31, 2015
Second circular	December 2015
Online submission open	1 December 2015
Abstract submission deadline	January 31, 2016
Notification of abstract acceptance	March 2016
Early bird registration deadline	April 30, 2016
Third circular	May 2016
Full registration deadline	June 15, 2016
Final circular	July 2016

CONFERENCE ORGANIZERS

Ab Ovo Association

Institute of Water Engineering and Water Management, Krakow University of Technology

University of Agriculture in Krakow

Institute of Nature Conservation, Polish Academy of Sciences in Krakow

Regional Water Management Board in Krakow

PROVISIONAL SCHEDULE

Sunday 20 September (afternoon) – registration and icebreaker

21-22 September – scientific sessions and poster exhibitions at Krakow University of Technology

21-22 September (morning/afternoon) - Kraków sightseeing tours for accompanying persons

21 September (evening) – Conference dinner

23 September – field trip to river sites in southern Poland, excursion to Małopolska region for accompanying persons

TRAVEL AND ACCOMMODATION

John Paul II International Airport Kraków-Balice has direct flight connections to many European destinations. Other airports with easy access to Krakow are Katowice Airport in Pyrzowice (80 km away, 90 mins with shuttle bus service) and Warsaw Airport (2.5-3 hrs by train). Krakow train station (*Kraków Główny*) is located within minutes of the city centre. A major tourist attraction, Kraków has plenty of accommodation options for all budgets.

VENUE

The Conference will be held in the centre of Kraków, at the Krakow University of Technology, in the buildings of the Interfaculty Centre of Education and Research *Działownia*, Warszawska 24.



INTERNATIONAL CONFERENCE

Towards the Best Practice of River Restoration and Maintenance

**September 21-23, 2016
Kraków, Poland**



First Announcement

abovo



www.riverrestorationconference2016.pl

MAIN THEMES

River status evaluation: hydromorphology, water quality, ecological status

Re-establishing good ecological status in affected river ecosystems requires proper recognition of key impacts on the rivers to undertake most effective restoration/mitigation measures. We invite contributions presenting assessment methods applicable for river restoration purposes, their potential for recognition of particular environmental stressors, linkages between hydromorphology and ecology, identification and significance of reference conditions.

Functioning of mountain gravel-bed rivers

High energy of mountain rivers limits their accessibility for research except at low flows. At the same time, as the vast majority of mountain rivers in developed countries were modified by man, rivers in which undisturbed functioning of abiotic and biotic processes can be studied are scarce. This session aims at presenting research on the functioning of mountain gravel-bed streams and rivers and their ecosystems performed with innovative approaches, techniques and methods (e.g. remote tracking of bed material or large wood movement), especially in relatively unmodified or recovering watercourses.

Technical interventions in river restoration and environmentally-oriented maintenance

River straightening, channel incision and transformation of alluvial channels into bedrock ones are examples of modifications with a range of documented adverse effects on river ecosystems. The affected rivers may not easily and quickly recover even if the human constraints are removed and technical interventions may be necessary to initiate and hasten the recovery. We invite contributions presenting various aspects of the use of technical interventions in restoration and environment-friendly, cost-effective maintenance of rivers, such as the extent and methods of technical interventions, persistence of their effects, on-site and distant impacts on the rivers, selection of the methods applicable to different types of rivers.

Experiences from completed and ongoing river restoration projects (poster session)

Flood risk management in the context of environmental needs

Traditional engineering solutions to flood risk management were often only partly effective, at the same time being costly and damaging to the environment. Measures are required that would allow to increase channel and floodplain storage and at the same time promote re-establishment of geomorphic dynamic equilibrium and improvement of the ecological conditions in the channels and riparian areas of modified rivers. We invite contributions presenting such solutions and discussing their applicability and effectiveness in different valley contexts as well as management approaches focused on reducing flood risk at the catchment scale rather than a local one.

Modelling fluvial processes and practical solutions

Experimental and numerical modelling is increasingly used to predict many aspects of the functioning of rivers and riverine ecosystems. Examples are models predicting flow hydrodynamics, inundation of valley floors by flood flows, transport and deposition of large wood, changes in flood hazard resulting from climate change, habitat requirements of target species of riverine ecosystems, etc. Contributions presenting use of either type of modelling to predict the functioning of rivers and their ecosystems and/or their applicability to solve problems related to river restoration and maintenance are welcome.

Legal and social factors in river restoration

Intensity and achievements of river restoration and mitigation activities depend on legal and social factors that may facilitate or impede these activities in particular countries or regions. We invite contributions concerning public perception of natural and modified riverscapes, positive/negative role of the public in creating solutions in river restoration and the success of restoration projects, methods and tools of gaining social acceptance for environment-friendly solutions in river restoration and maintenance, and legal aspects in (non)achievement of good ecological status of rivers at the European Union and country level.

Restoration or preservation of valuable nature areas and elements in river corridors

River and riparian ecosystems interact and influence each other. At the same time, environmental elements in river corridors frequently co-exist with and adapt to human presence and impacts. This session will focus on the sustainable management of river corridors aiming to preserve or restore their environmental values. Contributions dealing with evaluation methods of the environmental values of river corridors, measures of maintenance and restoration of corridor continuity in river valleys, spatial pattern and interactions of natural and cultural elements in the corridors and limitations for the corridor functions resulting from human use of riparian areas are especially welcome.

CONFERENCE CHAIRS

- Elżbieta Nachlik, Kraków University of Technology
- Artur Radecki-Pawlik, Agricultural University of Cracow
- Bartłomiej Wyżga, Polish Academy of Sciences
- Józef Jeleński, Ab Ovo Association, Poland
- Joanna Zawiejska, Pedagogical University of Cracow

SCIENTIFIC COMMITTEE

- Bart Fokkens, THE NETHERLANDS
- David Gilvear, UNITED KINGDOM
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