



SYMPOSIUM ON CLIMATE CHANGE
AND THE HYDROLOGICAL REGIME:
INTEGRATING PLANNING,
GOVERNANCE AND GEO-INFORMATION
TECHNOLOGIES

Novi Sad, Serbia, 26th-28th June 2019

BACKGROUND

The hydrological regime is very sensitive and vulnerable to climate variations. Climate change, as a long-term trend, is known to negatively affect water resources, a trend which may be worsened due to the present-day pressure on water, and the lack of reliable water management systems.

The Fifth Assessment of the Intergovernmental Panel on Climate Change (IPCC, 2014) states that an increasing concentration of greenhouse gases in the atmosphere is likely to cause an increase in global average temperature over this and probably the forthcoming centuries. This may lead to vigorous changes in hydrological cycles, with changes in precipitation and evapotranspiration rates varying across the geographical regions. Increases in mean temperatures, combined with erratic rainfall, may have significant impacts on water bodies such as rivers, lakes and reservoirs, leading to lower water availability and runoff.

The extended dry spells seen across Europe and parts of North America in the summer of 2018, have shown that no region in the world is immune to these problems. Indeed, concerns about droughts and the social and economic damages associated with reduced agriculture yields and crop failures are not only limited to the African regions as some could believe, but are also relevant to industrialised nations. Water management planners are facing considerable uncertainties on future demand and availability of water. Climate change and its potential hydrological effects are increasingly contributing to this uncertainty.

There is much research on the isolated impacts of climate change to water bodies, but comparatively few studies on how it relates to the hydrological regime as a whole. There is thus a perceived need to better understand how climate change influences the hydrological regime, and to seek innovative and sustainable solutions for the problems it leads to, or is associated with. It is also important to identify and showcase experiences which demonstrate how the impacts of climate change to water bodies can be properly addressed.

It is against this background that the **“SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES”** is being organized by the University of Novi Sad (Serbia), University of Banja Luka (Bosnia and Herzegovina), the Research and Transfer Centre “Sustainable Development and Climate Change Management” of the Hamburg University of Applied Sciences (Germany), and the International Climate Change Information and Research Programme (ICCI RP). The Symposium will be a truly interdisciplinary event, mobilizing scholars, social movements, practitioners and members of governmental agencies, undertaking research and/or executing projects focusing on climate change and water management. Apart from scientific research and studies, the event will look at the role of policies, and ‘noregret and flexibility’ in water management planning and design in response to climate change.

The “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” will focus on the nexus science-technology-society, meaning that it will serve the purpose of showcasing experiences from technical studies and research on the one hand, but also policy-making, governance systems and the role of geo-technologies, along with best practice to foster climate change adaptation which may be useful or implemented elsewhere.

AIMS

Consistent with the need for more cross-sectoral interactions among the various stakeholders working in the field of climate change adaptation, the aims of the “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” are as follows:

- I. to provide research institutions, universities, NGOs, government agencies and enterprises from the region with an opportunity to display and present their works in the field of climate change and the hydrological regime;
- II. to foster the exchange of information, ideas and experiences acquired in the execution of projects, especially successful initiatives and good practice across geographical regions;
- III. to discuss methodological approaches and experiences deriving from case studies and projects, which aim to show how climate resilience may be enhanced in practice;
- IV. to network the participants and provide a platform so they can explore possibilities for cooperation.

Last but not least, a further aim of the event will be to document and disseminate the wealth of experiences available today. To this purpose, the **book “Climate Change and the Hydrological Regime: integrating, planning, governance and geo-information”** will be published, with all accepted papers. This will be a further volume of the award-winning book series “Climate Change Management” published by Springer, which since its creation in 2008 has become the world’s leading book series on climate change management. The decision of the editors as to which papers may be selected and undergo peer review for the book is final.

ORGANISERS

- Hamburg University of Applied Sciences, Germany
- University of Novi Sad, Faculty of Technical Sciences, Serbia
- University of Banja Luka, Faculty of Natural Sciences and Mathematics
- International Climate Change Information and Research Programme (ICCIRP)

SCIENTIFIC COMMITTEE

Co-Chairs

- Professor Walter Leal, PhD, DSc, Hamburg University of Applied Sciences (Germany) and Manchester Metropolitan University (UK)
- Professor Miro Govedarica, Ph.D., University of Novi Sad, Faculty of Technical Sciences (Serbia)

Scientific Committee

- Professor Chryssy Potsiou, NTUA (Greece), FIG President
- Professor Flor Alvarez Taboada PhD, Universidad de León, Faculty of Agrarian and Forest Engineering, Ponferrada Campus (Spain)
- Professor Herbei Mihai Valentin, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timișoara, Faculty of Agriculture, Sustainable Development and Environmental Engineering Department (Romania)
- Professor Lara Pajewski, Sapienza University of Rome, Department of Information Engineering, Electronics and Telecommunications Rome, (Italy)
- Professor Karel Janečka, University of West Bohemia, Pilsen (Czech Republic)
- Profesor Zeljko Bacic PhD, Institute of Geomatics, Faculty of Geodesy, University of Zagreb (Croatia)
- Professor Dušan Jovanovic PhD, University of Novi Sad, Faculty of Technical Science (Serbia)

- Professor Aleksandar Ristic PhD, University of Novi Sad, Faculty of Technical Science (Serbia)
- Professor Srdan Kolakovic PhD, University of Novi Sad, Faculty of Technical Science (Serbia)
- Professor Johannes Platje, Wroslaw (Poland)
- Professor Goran Trbic, Banja Luka (Bosnia and Herzegovina)
- Professor Dejan Filipovic, Belgrade (Serbia)
- Professor Davorin Bajic, Banja Luka (Bosnia and Herzegovina)

Scientific Support

- Dr. Jelena Barbir, International Climate Change Information and Research Programme (ICCRP)

Cooperating Organisations

- United Nations Environment Programme (UNEP)
- United Nations Development Programme (UNDP)
- World Health Organisation (WHO)
- World Meteorological Organisation (WMO)

PROFILE OF PARTICIPANTS

Delegates attending the “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” will come from a cross-sectoral range of areas. These are:

1. researchers at universities and research centres;
2. members of NGOs working with climate change;
3. farmers´ associations and organisations;
4. representatives from companies;
5. representatives from UN and national development and aid agencies working with climate change adaptation and funding/ executing projects on the ground;
6. members of social movements;
7. project officers and consultants;
8. other people interested in the topic.

The participation of doctoral students is warmly encouraged and supervisors/advisers are kindly requested to facilitate their participation. The sort of international exposure and the rich content of this Symposium will be beneficial to their training and to their future careers.

It is believed that this wide range of participants will help to outline the need for and the usefulness of integrated approaches towards climate change adaptation and drought resilience in Africa, and hence contribute to the further consolidation of this thematic area.

STRUCTURE OF THE EVENT

The “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” will be organised in two main strands:

STRAND 1: THE POSTERS

Participating organisations will be able to put-up posters describing their works and projects and to distribute the relevant information to the participants. The posters will be the backbone of the event and will allow close, one-to-one contacts between the participants and the exhibitors.

STRAND 2: THE PRESENTATIONS

A set of presentations, divided into three main themes will be organised, distributed over parallel sessions dealing with some of the issues of strategic value in the field of climate change adaptation. These are:

Session 1 – Geo-information technologies

Session 2 – Climate change modelling, IPCC scenario data and impact studies

Session 3 – Governance systems and models

Session 4 –Water resources conservation, spatial planning and land use

Session 5 –Water resources and agriculture

Session 6 – Information, Communication, Education and Training

The plenary and parallel sessions, as well as the social events, will provide participants with an outstanding opportunity to interact, network and learn about the latest ideas, projects and practices.

VENUE AND TRAVEL INFORMATION

The “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” will be at the University of Novi Sad, Faculty of Technical Science in Novi Sad, Serbia, whose address is: D. Obradovica 6 21000 Novi Sad Serbia.

The City of Novi Sad, the second biggest city in Serbia, is situated about 80 Km away from Belgrade, the capital of Serbia. Belgrade Airport is served by many international carriers and is well connected to the major European hubs. There are regular transfer by bus, mini-bus or taxis between Belgrade Airport and Novi Sad.

TIME-TABLE

The “**SYMPOSIUM ON CLIMATE CHANGE AND THE HYDROLOGICAL REGIME: INTEGRATING PLANNING, GOVERNANCE AND GEO-INFORMATION TECHNOLOGIES**” will be held on 26th-28th June 2019 in Novi Sad, Serbia. The schedule is as follows:

26 th June 2019 (Wednesday)	27 th June 2019 (Thursday)
<p>Afternoon: Arrival and set-up of displays</p> <p>Evening: Free for informal chats and networking</p>	<p>All day: Exhibition and visit to displays</p> <p>Morning: Plenary and Sessions</p> <p>Afternoon: Plenary and Sessions</p> <p>Evening: Reception</p>
28 th June 2019 (Friday) (morning)	28 th June 2019 (Friday) (afternoon)
<p>Morning: Plenary and Sessions</p> <p>Exhibition and visit to displays</p>	<p>Afternoon: Plenary and Sessions</p> <p>Exhibition and visit to displays</p> <p>Conclusions with the hand over of the Awards for the best papers</p>

In order to ensure an efficient use of the time, delegates are kindly asked to organise their travel in a way that allows them to arrive in the course of 26th June 2019, and travel back on or after the 28th June 2019, so they can fully take part in the Conference and do not miss any session, especially the final one.

DEADLINES

- Deadline for abstracts:** 30th November 2018
Deadline for papers: 30th January 2019
Deadline for all reviews: 20th March 2019
Deadline for registrations: 20th April 2019

Since the conference book is expected to be launched shortly after the event, the deadlines need to be followed.

FEES AND CHARGES

A discounted fee of Euro 200 / Euro 100 (for students) plus 19% VAT, will be charged to those who register until **30th March 2019** (early bird registration). After that, delegates will need to pay the full fee of Euro 250 / Euro 125 respectively (plus 19% VAT). The fee includes lunches and coffee breaks as well as the evening reception on 27th June 2019. Furthermore, the fee includes a **on-line copy of the book "Climate Change and the Hydrological Regime: integrating, planning, governance and geo-information"** to be made available to those authors whose papers have been peer-reviewed and accepted.

Interested people and organisations are encouraged to register by completing the application form provided. **This is a self-funded event and the organisers are unable to pay any travel or accommodation costs** of any kind. They are however happy to issue letters of invitation to support delegates to request funding for their participation.

REGISTRATION AND CONDITIONS OF PARTICIPATION

Registrations are now open and are possible until the 30th March 2019. Regrettably, logistical limitations mean that registrations after the deadline will not be possible. Since the space for posters and the time for presentations is limited, **delegates are advised to register as soon as possible**. The organisers will notify any interested delegate or organisation in case there are any limitations with time for presentations or space for displays. Registered delegates will then receive further details on the payment of the fees and updated information on the preparations for the event. The decision as to which papers will be accepted for presentation will be taken by the Chairpersons, following consultation with the organising committee. Participants registering to the event will do so under the condition that they will cover their own travel, accommodation and incidental costs (e.g. visa fees) related to their trip to Serbia. **This is a self-funded event and the organisers are unable to pay any travel or accommodation costs of any kind**. Letters of invitation can only be sent to bona fide, registered delegates, who have paid their fees and need a document to show their employers. For cancellations of registrations up to 45 days before the event, a 50% refund may be made. For cancellations afterwards, no refunds will be

possible. Registrations are now open and may be made on-line at: www.haw-hamburg.de/en/ftz-nk/events/novisad2019.html

CONTACT POINTS FOR SCIENTIFIC INPUTS AND STRATEGIC COOPERATION

All questions related to scientific inputs and strategic partnerships, as well as the book, should be sent to:

Walter Leal (BSc, PhD, DSc, DPhil, DEd, DLitt, FSB, FRGS, FLS)
Professor of Environment and Technology
Hamburg University of Applied Sciences (Germany) and Manchester Metropolitan University (UK)
E-mail: info@iccip.net

and/ or

Professor Miro Govedarica, Ph.D.,
University of Novi Sad (Serbia)
Faculty of Technical Sciences
E-mail: miro@uns.ac.rs

CONFERENCE ADMINISTRATION AND CONTACT POINT FOR FURTHER DETAILS

All questions related to abstracts and registrations should be sent to:

Svenja Scheday
International Climate Change Information Programme
E-mail: svenja.scheday@haw-hamburg.de

HOW TO SUBMIT AN ABSTRACT

An abstract should be up to 200 max 300 words, it should describe the rationale and aims of the paper, and some of its results. General descriptions of broad contexts should be avoided. The full contact details about the author(s) need to be provided. Abstracts should be written in the third person and not in the first or second one (e.g. I, me, or my paper). Please see below a sample abstract. Authors whose abstracts have been accepted, will receive further details about how to submit their full papers, and further logistical information.

SAMPLE ABSTRACT

(PLEASE SEND YOUR ABSTRACT EXACTLY WITH THE FORMAT BELOW TO:

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International Climate Change Information Programme
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Promoting Climate Change Adaptation in Eastern Europe

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Abstract

The impacts of climate change to natural ecosystems, infra-structure and livelihood, means that the implementation of climate change adaptation strategies in developing countries has become a pressing issue. Among other factors, the undertaking of adaptation strategies is made difficult by the general lack of awareness and spread misconceptions about the real impacts of climate change which, in turn, slow down the execution of the adaptation initiatives needed, and which may ameliorate them.

This paper presents an analysis about the misconceptions related to the implementation of climate change adaptation strategies in Eastern Europe, and describes the most widespread ones, as well as their implications. A special emphasis is given to the problems and barriers caused by misinformation, which – in turn- prevent the promotion of adaptation initiatives at local level. Finally, some concrete steps which may be taken in order to break the misconceptions and foster a more systematic view of adaptation strategies, are outlined.