



# Call for Participants

**UNESCO**

**Chinese Academy of Sciences**

## **2023 International Workshop on Frontiers in Ecohydrology**

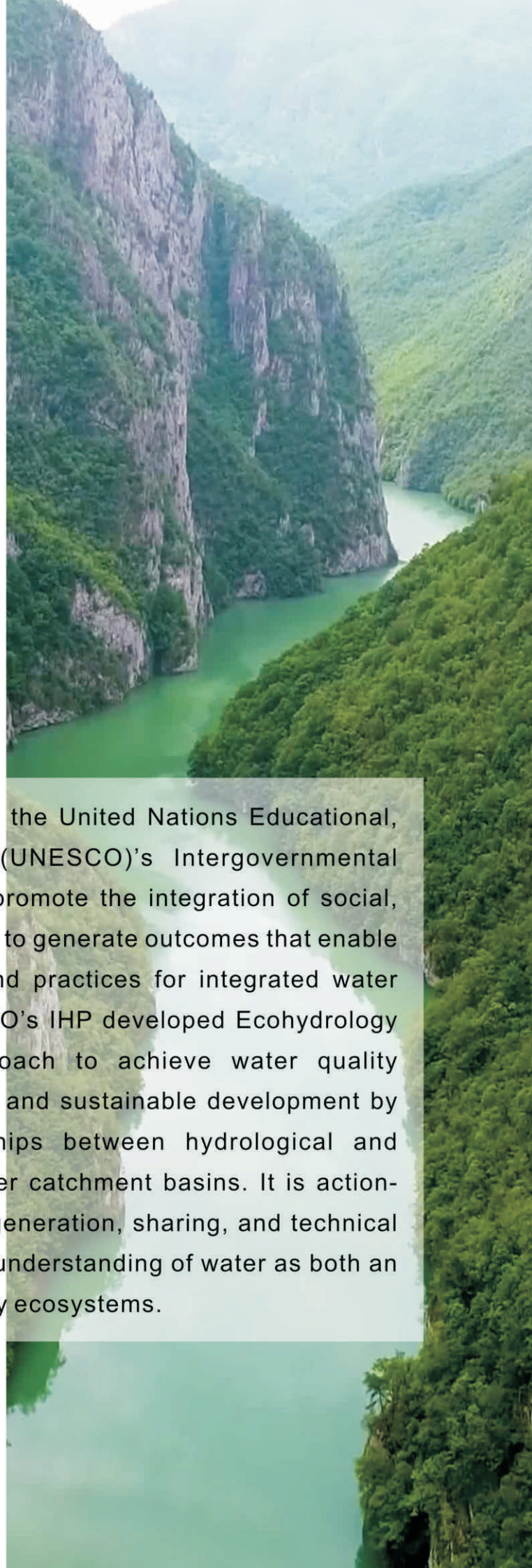
**4 – 22 September 2023**

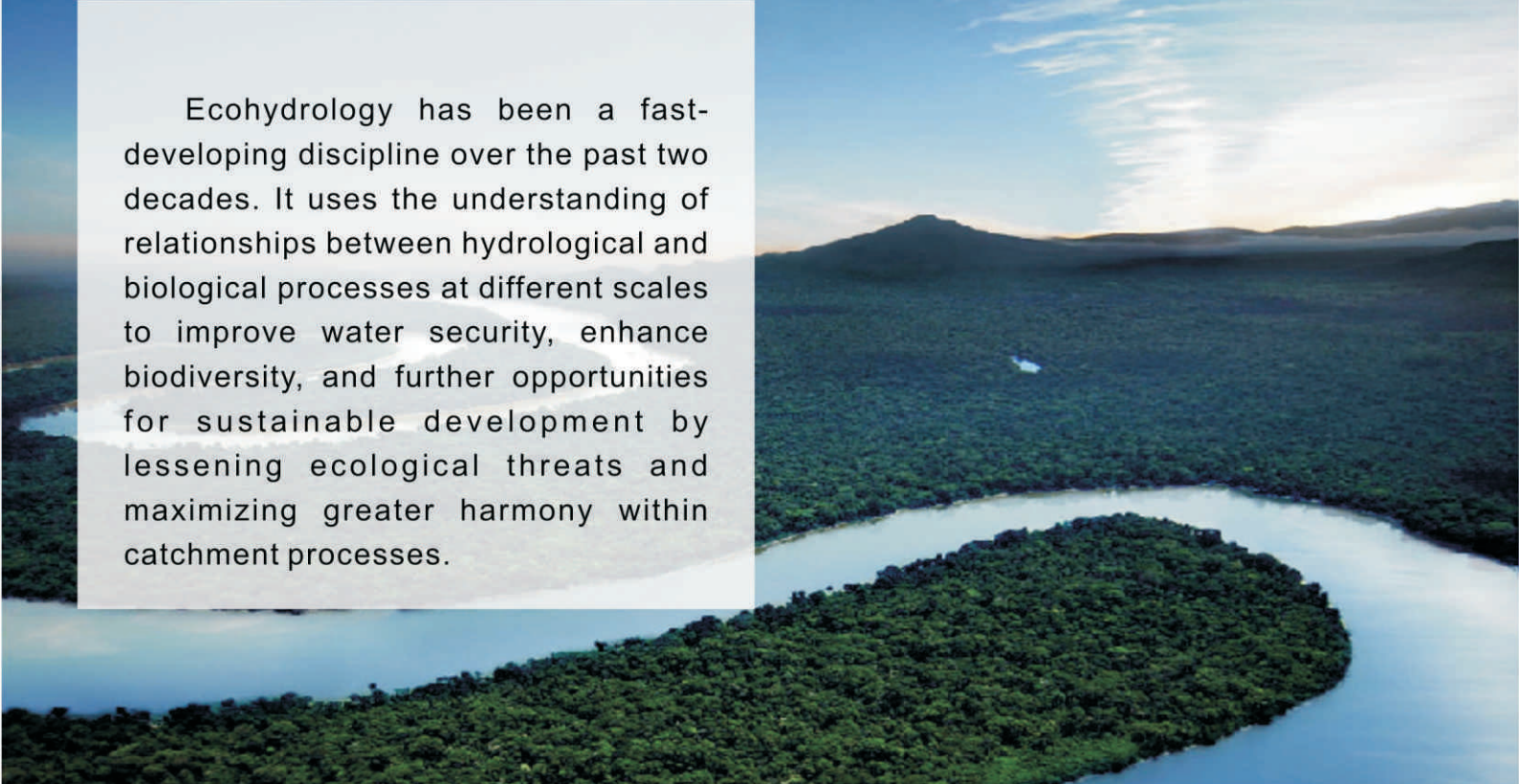
**Chongqing, China**



Ecohydrology has been a fast-developing discipline over the past two decades. It uses the understanding of relationships between hydrological and biological processes at different scales to improve water security, enhance biodiversity, and further opportunities for sustainable development by lessening ecological threats and maximizing greater harmony within catchment processes.

The Ecohydrology Programme within the United Nations Educational, Scientific and Cultural Organization (UNESCO)'s Intergovernmental Hydrological Programme (IHP) aims to promote the integration of social, ecological, and hydrological research and to generate outcomes that enable the development of effective policies and practices for integrated water resources management (IWRM). UNESCO's IHP developed Ecohydrology as a transdisciplinary, scientific approach to achieve water quality improvement, biodiversity enhancement, and sustainable development by using the understanding of relationships between hydrological and biological processes at the scale of water catchment basins. It is action-oriented and policy-relevant knowledge generation, sharing, and technical capacity building contributing to a better understanding of water as both an abiotic resource and a service delivered by ecosystems.





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Under the auspices of the Chinese Academy of Sciences (CAS) and the support from UNESCO-IHP Ecohydrology Programme, the International Workshops on the Frontiers in Ecohydrology will be held in September 2023 in Chongqing, China. The theme of the international workshop is **Ecohydrology: natural-based solutions for sustainable water resource management**. It is primarily designated for young scientists and governmental officers or project managers in the related area from developing countries.

To be an essential activity of the UNESCO-IHP Ecohydrology Programme, the international workshop will play the roles in the following two aspects:

1) Talent Training and knowledge dissemination: By introducing UNESCO-IHP and its Ecohydrology Programme, the participants will be acquainted with the structure, strategy, and approach of the UNESCO-IHP Ecohydrology Programme and its related operational implementation plan within the IHP-IX. The recent progress of global ecohydrology will be discussed through different lectures;

2) International communication and cooperation: UNESCO's Ecohydrology Demonstration Sites and other ecohydrology-related case studies will be extensively discussed during the workshop, promoting global communications of ecohydrology. The international workshop will organize field trips in China's Upper Yangtze Basin for trainees to understand the applications of ecohydrology here, and these activities will enhance international cooperation in ecohydrology.



## 01 Organizers

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Chinese Academy of Sciences; UNESCO-IHP Ecohydrology

## 02 Host Organizers

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Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences

## 03 Co-Organizers

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UNESCO Beijing Office, China

UNESCO Chair on Ecohydrology: Water for Ecosystem and Society at the University of Algarve (Ualg), Portugal

European Regional Centre for Ecohydrology of Polish Academy of Sciences (ERCE PAS), Poland

## 04 Time and duration

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The international workshop will be organized for three weeks, from September 4 to September 22, 2023. The final date will be confirmed in the following announcement.

## 05 Location

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Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences

Address: No. 266, Fangzheng Ave., Beibei District, Chongqing, China, 400714



## 06 Topics of Lectures

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The international workshop will not be limited to training skills but will serve as a communication platform for participants in different countries to foster the development of ecohydrology globally. Under the framework of the UNESCO-IHP Ecohydrology Programme, the international workshop will be organized, covering the following four aspects:

The structure, strategy, and approach of the UNESCO-IHP Ecohydrology Programme and further direction and development of ecohydrology towards UN 2030 Sustainable Development Goals (SDGs) call for further international cooperation.

The progress of global ecohydrology, including the advances in science and technology, as well as practices and case studies of ecohydrology at the catchment scale worldwide.

The recent progress of UNESCO's ecohydrology demonstration sites in China (Suburban Area of Metropolitan Beijing, Sanjiang Plain, Fengxi Sponge City, Three Gorges Reservoir, and Hongfeng Lake) from the establishment till the present.

Various ecohydrology-related activities and case studies in China, particularly in the upper Yangtze Basin, support the development of the UNESCO-IHP Ecohydrology Programme and have the potential to become the new ecohydrology demonstration site.





## **Selected lectures in the international workshop will include:**

- 1) Introduction to UNESCO-IHP Ecohydrology Programme

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- 2) Global Ecohydrology: What, why, Where, When, and How to implement ecohydrology

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- 3) Participatory processes and governance in ecohydrology

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- 4) Water cycling and eco-hydraulics: the fundamentals of ecohydrology

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- 5) Biogeochemical cycles at the catchment: essential elements in ecohydrology

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- 6) Nature-based solutions and UN sustainable development goals

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- 7) River restoration: advances, technologies, and case studies

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- 8) Ecohydrology and human health: Towards sustainable urban systems

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- 9) Management of ecosystem services for the sustainability of water resources

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- 10) Learning from ecohydrology demonstration sites and case studies

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Lectures will be further discussed and confirmed with the UNESCO-IHP Ecohydrology Scientific Advisory Committee (EH-SAC). Information will be updated in advance.

## 07 Other Activities of the International Workshop

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Besides a series of lectures on ecohydrology, field trips to some of UNESCO's Ecohydrology Demonstration Sites in China, e.g., the Three Gorges Reservoir, will be organized.

As a side-event of the workshop, an international symposium on ecohydrology will be organized. Members of the EH-SAC and UNESCO officials in the related area will participate in the international seminar.

## 08 Selection of Participants

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The international workshop will accept no more than 20 participants from developing countries, mainly African and Asian governments. Each country can propose up to TWO representatives to participate in the international workshop.

It requires all participants to be young scientists, government officers, project managers, or working staff in the related area from universities, institutions, government departments, and non-government organizations.

The participants will be referenced or screened jointly by the EH-SAC under the guidance or suggestion of UNESCO-IHP and the headquarter of the Chinese Academy of Sciences.

The application will be open on April 15, 2023, and will be closed on April 30, 2023 depending on the number of applications.



## 09 Fees for the international workshop

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Selected participants in the international workshop will be funded by the Chinese Academy of Sciences, including:

- 1) a round-trip of international air flights with economy class;
- 2) the accommodations with essential meals in the three-week workshop, including the field trips;
- 3) a basic package of accident insurance and medical insurance during the workshop.



## 10 Certification of the international workshop

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The UNESCO-IHP and the Chinese Academy of Sciences will jointly issue a certification of participation of each participant in the workshop on the closing ceremony of the international workshop.







## 11 Steering Committee and Organization Board

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### 11.1 International Steering Committee (to be continued)

#### **Rahmah Elfithri, Dr., and Chief of Section**

Capacity Development and Water Family Coordination (CDW)  
Division of Water Sciences, UNESCO-IHP

#### **Shahbaz Khan, Professor, Dr., Director, and Representative**

UNESCO Beijing Office

#### **Jun Xia, Professor, and Academician of the Chinese Academy of Sciences**

Chair Professor & Director of the Research Institute for Water Security,  
Wuhan University, China

#### **Maciej Zalewski, Professor**

Director of the European Regional Center for Ecohydrology of the Polish  
Academy of Sciences

#### **Luis Chicharo, Professor**

UNESCO Chair on Ecohydrology: Water for Ecosystem and Society at the  
University of Algarve (Ualg), Portugal

#### **Giuseppe Arduino, Professor**

UNESCO Chair on Ecohydrology: Water for Ecosystem and Society at the  
University of Algarve (Ualg), Portugal

#### **Pascal Breil, Professor**

National Research Institute of Science and Technology for Environment and  
Agriculture, France

#### **Stefano Fazi, Director**

National Research Council of Italy - Water Research Institute, Italy

#### **Michael McClain, Professor**

IHE Delft Institute for Water Education, Netherlands

#### **Qiuwen Chen, Professor, Director**

Division of Eco-Environment, Nanjing Hydraulic Research Institute (NHRI),  
China



## 11.2 Organizing Group

Dr. Zhe Li will be the head of the organizing committee. There will be eight organizing group members, divided into three working teams:

- 1) Team of external coordination,
- 2) Team of livelihood support,
- 3) Team of advocacy and public relations.



Head of organizing group Dr. Prof. Zhe Li	Email: lizhe@cigit.ac.cn Cell Phone: 13996263998
Assistant Dr. Prof. Yan Xiao	Email: yxiao@cigit.ac.cn Cell Phone: 13677671849
Assistant Dr. Asso. Prof. Yanbo Ma	Email: mayanbo@cigit.ac.cn Cell Phone: 18225309072

## 12 More Information & Contact

### Official Contact Email:

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Tel: +86-23-65935555; Fax: +86-23-65935000

### Address:

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## 13 Brief introduction of the Chinese Academy of Sciences



中国科学院  
CHINESE ACADEMY OF SCIENCES

The Chinese Academy of Sciences (<https://english.cas.cn/>) is the linchpin of China's drive to explore and harness high technology and the natural sciences to benefit China and the world. Comprising a comprehensive research and development network, a merit-based learned society, and a higher education system, CAS brings together scientists and engineers from China and around the world to address theoretical and applied problems using world-class scientific and management approaches.



中国科学院重庆绿色智能技术研究院  
ChongQing Institute of Green and Intelligent Technology, Chinese Academy of Sciences

Chongqing Institute of Green and Intelligent Technology (<http://www.cigit.cas.cn/>) is a public institution under the Chinese Academy of Sciences. Since its initiation and establishment in March 2011, insisting on the core value concept of 'innovation being soul and based on the market' and taking as guidance significant scientific and technological demands of economic and social development from Chongqing and the upper reaches of Yangtze River, it has an Institute of Electronic Information Technology, an Intelligent Manufacturing Technology Institute, and a Three Gorges Ecological and Environmental Research Institute.





**UNESCO and the Chinese Academy of Sciences**  
**2023 International Workshops on Frontiers in Ecohydrology**  
**Application Form for Participants**  
**The deadline for application is April 30, 2023**

First Name		Last Name	
Full Name on the passport			
Date of Birth			
Gender			
Religion			
Country			
Affiliated organization			
Work position & work title			
Address			
Contact email			
Phone/Fax			
<b>Topics interested and further inquiries about the workshop</b>			



## One-Page C.V. of the Participant

Please complete and send the table to the following email by April 30, 2023.  
Email: [ecohydro@cigit.ac.cn](mailto:ecohydro@cigit.ac.cn); [ecohydro2023@126.com](mailto:ecohydro2023@126.com);