

International River Basin Foundation and River Water User Association (India) are the key organizations

International River Basin Foundation

working on UN Sustainable Development Goals under World Council of Professionals and Industries. Their analytical and discussion forums proposes to discuss the issues raised in past national and international conferences/workshops to encourage world focus on adoption and mitigation strategies to achieve the sustainable development goals. Fourth International River Summit, India 2025, is an effort to bring concerned communities, scientists and researchers together in an international event to present their success and field initiatives, and to analyse,

worldcouncil.pi@gmail.com

discuss and review their findings with world-renowned scientist, academicians and decision makers. The aim is to inform possible solutions and policies for a more sustainable world. **About the Summit** Rivers are the life line of the civilizations, ecosystems and economies. However rapid climate change,

urbanization and unsustainable water use have severely altered hydrological cycles and The 21st Century calls for new paradigm- Intelligent River Basin Management (IRBM), that leverages Artificial Intelligence (AI), Internet of Things (IoT), Big Data and Remote Sensing for predictive, adoptive and Integrated Water Management. This Summit aims to create a global dialogue between scientists, technologists, policy makers, and community leaders to advance the use of smart data driven solutions for sustainable and climate resilient

river basin. The summit will also hold the 3rd Asian Meet and Roundtable discussion, and 4th International Meet on water scarcity and Policy issues and an special meet on worldwide climatic change. **Conference Objectives** 1.To explore the role of AI, IoT, and data analytics in improving river basin decision-making.

- 2.To showcase innovative technologies and frameworks for climate-adaptive water management.
- 3.To promote cross-sectoral partnerships among governments, academia, industry, and local communities.
- **4.To strengthen** policy frameworks for integrated, trans-boundary river governance.
- **5.To foster** knowledge exchange and build a roadmap toward *Sustainable*

Expected Outcomes

- 1.Adoption of a Policy Brief: Recommendations on using AI and data-driven tools in river basin management. **2.Publication of Proceedings:** A compendium of papers and presentations on intelligent water systems.
- 3. Establishment of Collaborative Network: Creation of the International River Intelligence Consortium (IRIC) under IRBF. **4.Knowledge Exchange:** Cross-country partnerships for smart basin technologies. **5.Capacity Building:** Training modules and open-access data tools shared with developing river basins.
- 6.Outcome Document: "Intelligent River Declaration 2025" outlining global strategies for climate-smart basin governance.



Intelligent River Basin Management in the Age of Climate Change Theme-1:Digital and Intelligent Systems for River Basin Management

4th International **River Summit**

This theme focuses on integrating Artificial Intelligence (AI), Internet of Things (IoT), remote sensing and Big Data analytics into river basin management. It covers predictive flood forecasting, water quality monitoring, and digital twins for modeling river dynamics. By creating real-time, data-driven insights, intelligent systems can significantly

Key Focus Areas: AI-driven hydrological and sediment modeling IoT based sensor networks for continuous monitoring GIS-based river mapping and visualization Data integration and cloud-based decision support systems.

This theme addresses the impacts of climate change on river systems — such as altered flow patterns, floods, and droughts — and explores strategies for building resilient water systems. Emphasis is on climate modeling, adaptive infrastructure, ecosystem restoration, and blue carbon initiatives that mitigate climate impacts while preserving bio-diversity. **Key Focus Areas:**

Theme-2: Climate Change, Water Security, and Resilience

Climate-resilient water infrastructure Flood and drought risk management Nature-based solutions (wetlands, riparian buffers) Blue carbon ecosystems and carbon-neutral watersheds.

Theme focuses on climate-smart agriculture, precision irrigation, and sustainable horticulture practices linked to river basin health. Incorporates biotechnology and bio-informatics to improve crop water efficiency, soil health, and disease-resistant varieties, while maintaining ecological balance. Focus Areas: Precision irrigation and water-efficient farming

foster peace, equity, and sustainable development.

Citizen science and participatory monitoring Youth innovation labs and hackathons

Key Focus Areas:

Registration

Er. Mahendra Mehta

Chairman, WCPI **Dr. H.A. Kazmi**

Theme3: Sustainable Agriculture and Horticulture

Sustainable crop management Bio-informatics for crop and soil health monitoring Biotechnology for developing climate-resilient crops Integration of agriculture practices with river basin sustainability Agro-ecological solutions and Bio-diversity conservation

Theme 4: Policy, Governance, and Transboundary Cooperation This theme emphasizes the need for integrated water resource management (IWRM), effective policy frameworks, and transboundary collaboration among nations sharing river basins. It advocates science-informed governance, participatory decision-making, and transparent data-sharing mechanisms that

Key Focus Areas:
River diplomacy and basin-level treaties
Integration of AI tools in policy and regulation
Water-energy-food-ecosystem (WEFE) nexus governance
Participatory water management and stakeholder inclusion

Theme 5: Community, Innovation, and Education

This theme focuses on community-driven and inclusive approaches to river management. It highlights citizen science, youth innovation, and capacity building as critical components of sustainable solutions. Empowering local communities with digital tools and environmental education ensures long-term stewardship of river ecosystems.

Water education and awareness campaigns Integrating traditional and indigenous knowledge **Call for Abstract Submission**

Abstract of 200 to 300 words is invited for thematic sessions through following Google form (available at the website https://www.rwua.org.in/Riversummit2025 or may be submitted at the Email: rwuaconference@gmail.com

Registration form and fee details are available at the website:

https://www.rwua.org.in/Riversummit2025

Ex Commissioner Ministry of Water Resources, GOI, India

International River Summit 2025 Organizers River Water User Association (India) International River Basin Foundation World Council of Professionals and Industries International Association of River Water Users and Water Conservators

Remco Van Santan, Advisor Strategies New Businesses at RODIC Consultants Director, Our Living Land and Water, Western Australia.

Co-Advisor

Advisors

Pvt. Ltd.India Prof. (Dr.) K.N. Bhatt Prof. Jeff Camkin Former Professor, G.B. Pant Institute of Social Sciences Professor, Institute of Agriculture, The University of Western Central University of Allahabad Australia, Perth, Australia.

Dr. Atul Kumar Singh, Scientist Emiritus, NBFGR-ICAR, Lucknow and Former Prof. Sergey N. Kirpotin Director, Cold water Fisheries Research, Nainitaal, Uttrakhand, India Professor, Doctor of Sciences; Director, "Bio-Clim-Land" Center of Excellence" National Research, Tomsk State University. Russia

Consultant and Environmentalist, Lucknow, India. Dr. Man Singh Consultant, NERIWALM and Former Project Director, WTC, ICAR-Indian Agricultural Research Institute, New Delhi.

Professor, Department of Civil and Environmental Engineering, University of Auckland, New Zealand. Prof. Wang Ping
Professor, Institute of Geographic Sciences and Natural Resource

Colonel Sudhir Nethan (Retd)

DPM, MBA, M. Phil (Mgmt), MAeSI, Pilot,

Research, Chinese Academy of Sciences, China.

Prof. Ajit Kumar Samrah,

Event Coordinator Er. Monisha Isaac, Assistant Director, River Ecosystem, RWUA(I)

Committee Members

Prayagraj, India

Prof. Malik Hussain, Associate Professor in Innovative Food Production, School of Science, Western Sydney University, Australia.

Prof.(Dr.) Farda Imanov, "Sukanal" Scientific-RDI Azerbaycan
Dr. Pandi Zdruli, CIHEAM-Mediterranean Agronomic Institute of Bari, Italy
Prof.(Dr.) Sergey V. APLONOV, Institute of Earth Sciences, Russia
Dr.Aziz Satana, Faculty of Agriculture, Erciyes University, Kayseri, Turkey
Rajan Subedi, Oxfam, Nepal
Dr. Om Katel, Head CECR, Royal University of Bhutan.
Dr. Assem Myrzhieva, KNARU, University, Kazkhstan.
Dr. Never Mujere, University of Zimbabwe
Dr. Sunday Monday Adiaha, Nigeria
Dr. M. Muruganandam, Principal Scientist, ICAR-IISWC, Uttrakhand, India.
Dr. D.K. Singh, Principal Scientist, ICAR-WTC, New Delhi, India.
Dr. A.K. Pandey, Former Principal Scientist, ICAR-NBFGR, Lucknow, India.
Dr. Ajit Kumar Verma, Principal Scientist, ICAR-CIFE, Mumbai, India.
Dr. Shakir Ali, Principal Scientist, ICAR-CAZRI, Udaypur, Rajasthan, India.
Dr. S. Hasan, Principal Scientist, ICAR-IIRS, Lucknow, Uttar Pradesh, India.
Dr. A.K.Pathak, Senior Scientist, ICAR-NBFGR, Lucknow, U.P., India
Dr. Satendra Singh, Associate Professor, DCBBI, SHUATS, India.

Important Dates

Abstract Submission Closes: November 30, 2025 Registration Opens: 1 ovember 1 Registration Closes: December 10, 2025 Abstract Acceptance: November 30, 2025

Full paper submission Closes: December 10, 2025

Power Point Submission: December 12, 2025

Related SDGs: SDG 4: Quality Education; SDG 5: Gender Equality; SDG 6: Clean Water and Sanitation; SDG 10: Reduced Inequalities; SDG 17: Partnerships for the Goals

4th INTERNATIONAL

Related SDGs:

Communities;

SDG 6: Clean Water and Sanitation; SDG 9: Industry, Innovation, and

SDG 6: Clean Water and Sanitation;

SDG 6: Clean Water and Sanitation, SDG 12: Responsible Consumption and

SDG 16: Peace, Justice, and Strong

SDG 17: Partnerships for the Goals; SDG 2: Zero Hunger (through water–food security linkages)

ater and Sanitation;

Production,

SDG 13: Climate Action,

SDG 15: Life on Land

Related SDGs:

Institutions:

Infrastructure; SDG 11: Sustainable Cities and

SDG 13: Climate Action

Related SDGs: .

SDG 13: Climate Action; SDG 14: Life Below Water;

SDG 15: Life on Land

Related SDGs: SDG 2: Zero Hunger,

Dr. Sundaresan Subramanian,

President, ConsultSubi, Chicago, I L. USA

Prof. Givi Gavardashvili

Academician of Georgian National Academy of Science, Dr., Professor Director of Ts. Mirtskhulava WMI-GTU,Georgia. Dr. Julie Ladel,

Expert and Consultant Water Resource Management, France. Dr. Susana Neto,

PhD, MSc, Civil Engineer, Portugal Portuguese Water Resources Association (APRH), Director of the Editorial Board of the APRH Journal, University of Lisbon **Dr. Sergey Chernomorets**

Leading Researcher, Laboratory of Snow Avenches and Debris Flows, Faculty of Geography, Lomonosov, MSU, Moscow, Russia.

Chairman Organizing Committee

Prof. (Dr.) Rajendra Kumar Isaac Executive Director, World Council of Professionals and Industries, President, RWUA(I) Chief Executive officer, IRBF

Prof. (Dr.) V.M. Prasad, Former Professor and Head, DoH, SHUATS,

Prof. (Dr.) Amarjeet Singh, Professor, MGCGVV, Chitrakoot, MP., India Prof. (Dr.) Shashi Kant Tripathi, Professor, MGCGVV, Chitrakoot, M.P., India Prof. (Dr.) Amit Sinha, Professor and Head, DCS-IT, ABES EC.Ghaziabad, India

Pof.(Dr.) Awinash Dwivedi, Professor and Head, JIMS -CEM, Noida, India.
Dr. Mukund Upadhyay, Former Professional Development officer, Oxfam India.
Dr. Govind Singh, Assistant Professor, MGCGVV, Chitrakoot, M.P., India
Dr. Ashok Mishra, Associate Professor, IIT Kharagpur, W.B.,India
Dr. Dinesh Singh, Associate Professor, TERI, Ghazipur, India Dr. Om Hari Singh, Former Director, Govt. Polytechnic, Mirzapur, India Dr. Narendra Kumar Gupta, Associate Professor, DCS-IT,

SHUATS, Prayagraj, India
Dr. Alok Dwivedi, Consultant and IoT Expert, Varanasi, U.P., India
Dr. Shikha Singh, Assistant Professor, DCEA, GLA University, Mathura, U.P. **Prof.(Dr.) Sanay Kumar Samantarai,** Founder President ICC and Former Dean, OUAT, Bhubaneswas, India Dr. Vineet Sharma, Web Technology and IoT Expert, Varanasi, U.P

Contact

Email for Abstract: rwuaconference@gmail.com

40 INTERNATIONAL RIVER

SUMMIT

Website: https://www.rwua.org.in/Riversummit2025