



AIWC@5 International Symposium **WATER FUTURES AND CLIMATE RESILIENCE**

18 – 19 November 2025
Western Sydney University, Sydney, Australia

As global water and climate challenges intensify, bold, collaborative, and cross-disciplinary solutions are essential. The AIWC@5 International Symposium on **Water Futures and Climate Resilience** provides a timely platform for researchers, practitioners, policymakers, and students from Australia, India, and the Asia Pacific to connect.

This two-day event brings together AIWC partners and the wider water community to share research, showcase innovations, and foster dialogue across sectors. It aims to drive knowledge exchange and shape practical pathways for inclusive, climate-resilient, and sustainable water futures.

Focusing on five themes - climate adaptation, river and groundwater sustainability, agricultural water management, urban water transitions, and digital and policy innovation - the symposium highlights real-world case studies, community initiatives, and institutional strategies to accelerate progress toward the Sustainable Development Goals (SDGs).

SYMPOSIUM THEMES

Climate-Resilient Communities and Water Systems

- Climate adaptation and resilience strategies
- Nature-based solutions and locally led development
- Community empowerment and inclusive water governance
- Alignment with SDGs 6, 11, and 13

Agricultural Water Management and Food Security

- Efficient irrigation and water use in agriculture
- Reuse of treated wastewater in farming
- Participatory water management with farmers
- Water–Energy–Food nexus in practice

Groundwater, River Health and Integrated Catchment Management

- Participatory groundwater monitoring and MAR
- River health, environmental flows, and water quality
- Integrated surface–groundwater systems
- Catchment-level and basin-scale governance models

Urban Water Futures and the Circular Economy

- Integrated urban water management
- Stormwater harvesting and reuse
- Water-sensitive urban design and planning
- Sustainable infrastructure for liveable cities

Digital, Policy, Indigenous, GEDSI and Governance Innovations for Water Sustainability

- AI, IoT, Design Science and data platforms for water systems
- Modelling, decision-support tools, and digital twins
- Institutional reforms and governance innovations
- Socio-economic, water policy, indigenous knowledge and governance innovations
- Inclusive policy design incorporating GEDSI principles

PROGRAM OVERVIEW

Tuesday, 18 November 2025

Morning Session 1

- Opening and Welcome
- Reflections on AIWC's 5-Year Journey
- Keynote on global collaboration for water sustainability

Morning Session 2

- Plenary Dialogue on Climate-Resilient Communities and Water Systems

Tea/Coffee Break

Morning Session 3

Parallel Technical Sessions

- Agricultural Water Management and Food Security
- Groundwater, River Health, and Catchment Governance

Lunch and Networking

Afternoon Session 1

Parallel Technical Sessions

- Urban Water Futures and Circular Economy
- Digital and Policy Innovations for Water Sustainability

Afternoon Session 2

Panel Dialogue

- Bridging Research, Practice and Policy for Water Futures

Evening

Networking Dinner and AIWC Partner Engagement

Wednesday 19 November 2025

Morning Session 1

- Strategic Roundtable
- Collaborating for the Next Decade

Tea/Coffee Break

Morning Session 2

Emerging Ideas & Cross-Cutting Conversations

Lunch

Afternoon Session | Field Visit – Seeing Solutions in Action



Reach out for
further information
& Registration

