

HWRS 2022

Abstract Submission Guidelines

General policies and requirements

The abstract submission deadline is **11:59PM AEST Friday 20 May 2022**.

All abstract submissions will be reviewed by the HWRS Scientific Committee. The Scientific Committee may accept or reject abstracts and their decision is final. The outcome of abstract submissions will be emailed in **June 2022**.

By submitting an abstract the authors agree to the **General policies and requirements** and the [Speaker/Author Agreement](#).

Presenting authors are required to **register and pay to attend the Symposium** by **12 October 2022** (co-authors are not required to register, though co-presenters are). Presenters that remain unregistered after the deadline will have their submission **removed** from the program and Symposium proceedings. No funding or discounts are available to presenting authors.

Authors can submit multiple abstracts but may only deliver a **maximum of two presentations** (one as the primary author and a second as a co-presenter). If deemed appropriate by the Scientific Committee, all other abstracts may be offered as a poster.

Following abstract acceptance, a paper must be submitted to present an oral at HWRS 2022, delivering a poster does not require a paper submission.

A presentation may be delivered by a **maximum of two presenting authors**, however, both presenters must be **registered to attend** the Symposium.

If the abstract is selected, consent is provided for the presentation slides, video, audio recording and photos taken during the presentation to be used and published by Engineers Australia including being provided to delegates of HWRS 2022.

[Online submission](#) is the only method for submitting abstracts for HWRS 2022.

Abstract submission guidelines

All abstracts submitted for HWRS 2022 must follow these guidelines.

1. [Create an eOrganiser account](#) to submit an abstract.
 - a. Upon creating an account submitting authors will be asked to verify their email address. Please check the spam or junk folder if not received. Please contact hwrs@engineersaustralia.org.au if unable to locate the verification email.
2. The abstract must be written in English.
3. The presenting author must ensure that the abstract is submitted correctly.
4. Presenting authors must provide a biography (maximum of 100 words) and photograph (a passport style photograph in high resolution up to 2MB) at the time of abstract submission. Photos and bios for co-authors may also be provided but are optional.

Submitting an abstract

To submit an abstract, locate **Submissions** in the eOrganiser submission portal and then copy and paste the content from the abstract into the relevant fields in the online submission portal. Alternatively, type directly into the fields within the portal.

Presentation title

- The title should be short, informative and contain keywords.
- The first word in the title should be capitalised as should any proper nouns.
- ALL CAPS should **NOT** be used.
- Abbreviations and acronyms can be capitalised as required.

Example: Towards improved groundwater processes in **AWRA-L**

Abstract body

- **Maximum 300 words.**
- The abstract body should define the precise subject of the presentation to the audience. The abstract body must contain the content of the abstract only.
- The abstract should state the following:
 - The problem being addressed.
 - The purpose of the submission.
 - Basic procedures/methods.
 - Main findings.
 - Principal conclusions.
- **Do not** include the abstract title, author names or references in the abstract body.
- Use standard abbreviations only. When using abbreviations spell out the name in full at the first mention and follow with the abbreviation in parentheses. Abbreviations may be used in the title, provided the name in full is outlined in the body of the abstract.
- Headings and references should **not** be included in the abstract body.

Author(s) and other details

- Add the details of the author(s) as required. Indicate a presenting author using the Yes/No slider.
- Select the relevant sub theme for the submission and answer the other questions as stated to complete the submission process.

Previewing the abstract

Once all fields have been completed, click **Preview and Submit** to generate a final preview of the abstract (Adobe Acrobat plugin may be required). Check this preview carefully to ensure the accuracy of the submission. Once you are satisfied with your preview click **Submit** to complete the abstract submission process.

Post submitting

- Upon successful abstract submission, the submitting author will receive a confirmation email containing the abstract attached as a PDF file. Check junk or spam folders if not received. Please contact hwrs@engineersaustralia.org.au if unable to locate the confirmation email.
- The abstract should not be resubmitted for any reason.
- Authors can view or edit their abstracts by returning to their eOrganiser account and by selecting 'Submissions'. Edits can be made to abstracts until the review process begins.
- The outcome of abstract submissions will be emailed in **June 2022**.

Presentation types

Oral presentation

An oral presentation consists of a brief presentation and question and answer time. Presentation slides are mandatory. Video clips, props and graphs are encouraged but not compulsory. A paper submission is required to deliver an oral presentation.

Poster presentation

A poster presentation consists of visual information (photos, graphics, text, references tables and figures) that will be displayed on the virtual platform. Posters should include a summary of key findings (whether from research, investigations, studies or project work) and recommendations for future research or projects. A paper is not required for a poster presentation though a paid registration from the presenting author is still required.

Theme and sub-themes

The theme for HWRS 2022, *The past, the present and the future*, covers a range of topics relevant to practicing water engineers, students, academics, researchers, and industry specialist providers.

Examples of potential presentation topics are listed under each sub-theme. The sub-themes for HWRS 2022 are:

Hydrology

Event based; Long term continuous modelling; Monte Carlo; Data collection/gauging; Rare-extreme event analysis; Climate change; Programming.

Flood forecasting

Machine learning in flood forecasting; Real-time flood forecasting and warning; Prediction in ungauged catchments; Management of uncertainty; Statutory response to flood forecasting.

Floods -Risk assessment, planning and management

Design flood estimation and risk assessment; Floodplain modelling and management; Regional flood studies; Prediction in ungauged catchments; Management of uncertainty; Flood risk management through land use planning; Using paleo-hydrology to inform flood risk.

Eco-hydraulics

Digital technology in low flow and drought studies; Quantifying long-term drought risk; Minimum flows to protect the environment; Water quality and drought; Technical advances in environmental flow assessment techniques; Environmental flow release trials and policy; Watershed assessment, monitoring and management; Water quality and health of aquatic systems; Fate and transport of pollutants; Evaluation of environmental flow programs; Fish and aquatic life passage at hydraulic structures.

Instrumentation, hydroinformatics, smart data

Hydrologic monitoring and data management; Advances in simulation modelling; Artificial neural networks, evolutionary methods and cellular automata; Applications of GPS, remote sensing, GIS digital terrain modelling in hydrology and water resources; Internet based applications; Novel metrology for field measurements in rivers and hydraulic structures.

Hydraulic structures

Spillway design and operation; Urban hydraulics and structures; Water management for infrastructure: physical and numerical modelling of dams and weirs; CFD modelling; Linear infrastructure.

Informing policy & operational decisions

New digital technologies and methods for water conservation; Water conservation in the agricultural, industrial and municipal sectors; Land use change impacts; Alternate water sources and Irrigation water management; Challenges in the use of alternative water sources; Sustainability issues, challenges, risks and uncertainties; Water governance, socio-economic framework and policy; Understanding and forecasting water use behaviour; Water stewardship, standards and accreditation; Multicriteria decision making and applications in water systems analysis; Decision support systems.

Integrated water resources management

Sustainability and modelling technology; Water security-conflict management; Water trading; Decision Support Systems; Water supply and demand management; Bushfire response.

Groundwater

Advances in groundwater modelling; Groundwater contamination and protection; Integrated coastal aquifer management; Water harvesting and groundwater recharge; Transport & fate of pollutants; Improving water quality – salinity/sodicity management.

Urban water management

Liveability - meeting the basic social, environmental and economic needs of people; Water sensitive urban design; Water and urban microclimate management; Urban hydrology and flash flooding.

Responding to climate change

Impacts of global and regional climate change and adaption; Projections of changes to rainfall intensity; Quantifying, modelling and managing changes to flood risk; Sea level rise and coastal processes.

Industrial water management

Modelling and managing river diversions; Water supply for mining and processing; Managing discharge of contaminated water; Pumps and pipelines; Flood risk management for dams and other infrastructure.

HWRS 2022 Proceedings

All accepted papers submitted for HWRS 2022 will be published via the RMIT Informit Engineering Collection within approximately three months following the symposium.

Papers published on RMIT Informit Engineering Collection are findable via Google Scholar (and Google); NLA; EBSCO; OCLC; Summon and other database aggregators and search engines.

CPD Hours

Members of Engineers Australia can claim CPD hours for presenting at and attending HWRS 2022.