



16th Specialised Conference on Small Water and Wastewater Systems.

8th Specialised conference on Resource Oriented Sanitation.

1-5 December 2019
Murdoch University, Perth, Western Australia

www.swws2019.com

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ICE WaRM
International Centre of Excellence
in Water Resources Management



Because public health matters.

WELCOME

Welcome to the International Water Association conference on Small Water and Wastewater Systems 2019 to be held in Perth, Western Australia on 1-5 December at Murdoch University. What an exciting time to be sharing ideas, presenting the latest research findings and discussing new possibilities in science and technology with local and global policy directors, engineers and managers.

We would like to take this opportunity to thank our many great colleagues on the Executive Committee, National Organising Committee, International Advisory Committee, Program Committee and invited speakers. When you come to Perth in December 2019 you will be able to see a city with a number of examples of decentralised systems. Please do not hesitate to contact us for any further information.



OBJECTIVE

Water is essential for all life forms. It is a fundamental resource necessary for socio-economic development and for ecological sustainability.

Good quality water is becoming scarce due to population growth and associated residential and industrial development and pollution, particularly in towns and cities. It is timely that the sustainable management of water resources is widely discussed, noting that water can be recycled for an unlimited number of times after adequate treatment. The conference will have topics regarding small systems decentralised systems which serves less than 100,000 population equivalent. The conference will discuss and explore new and innovative methods of treatment, better understanding and assessment of resources and their supporting ecosystems, proper management for conservation and approaches to achieve the dual aim of economic development and ecological sustainability. The focus is on the necessary infrastructure to provide good quality water, in sufficient quantity, in the most sustainable manner.

HOST CITY

The conference will be held at Murdoch University, Perth, Western Australia. Perth is a vibrant, energetic city that offers a truly unique Australian experience. Set on the banks of the spectacular Swan River, Perth is Australia's sunniest capital city and the fastest growing urban centre, offering cultural diversity and sophistication combined with a relaxed and friendly vibe. Beyond Perth, delegates can choose to experience the breathtaking and unparalleled beauty of the natural attractions in the regional areas of Western Australia either on the 3-day social tour after the conference or independently.

VENUE

The conference will be hosted by Murdoch University situated in the southern suburbs of Perth, Western Australia, only 12 minutes by train from the centre of the city and a short bus ride from the popular tourist destination of Fremantle. The University has excellent conference, exhibition facilities and catering facilities, which enable delegates to maximize their time during the conference.

CONFERENCE TOPICS

1. Governance, Policy and Regulation

- Supporting innovation
- Regulatory approvals processes
- Models of service provision
- Funding, risk and management

2. Innovation, Technology, Research and Development

- Sources: Rainwater, Storm water, Groundwater
- Desalination
- Treatment innovations
- Decentralized treatment systems
- Low technology treatment systems
- Wastewater reclamation and reuse
- Sludge management
- Systems for mining industry
- Resource oriented sanitation
- Algal Biotechnology

3. Implementation and Operational Experience

- Water-Energy Nexus
- Water-Energy-Food-Community Nexus
- Operation and Maintenance of small wastewater treatment plants
- Experiences from developing countries
- The role of small scale systems in livability
- Environmental microbiology & population dynamics
- Operation and maintenance in remote locations and Aboriginal communities

4. Communities, engagement and liveability Education, Training and Certification

- Fostering champions
- Stakeholder management and meeting multiple objectives
- Community engagement and behavior change

INVITED SPEAKERS

Dr Dani Barrington	UK
Dr Bhakti Devi	Sydney
Dr Gayathri Dhanasamy	Sydney
Prof Wendell Ela	Perth
Mr Mark Ellery	Perth
Prof. Eran Friedler	Israel
Prof Amit Gross	Israel
Dr Shervin Hashemi	Korea
Assoc Prof Jiangyong Hu	Singapore
Brigadier Aslam Khan	Pakistan
Dr Evina Katsou	London
Mr Johannes Kisser	Austria
Dr Kathy Meney	Perth
Dr Pierre Mukheibir	Sydney
A/Prof Ashok Sharma	Melbourne
Dr Kumokawa Shinhi	Japan
Dr Markus Starkl	Austria
Prof Joseph Thanikal	India
A/Prof Miller Alonso Camargo Valero	UK
Prof Jan Vymazal	Czech Republic
Mr Jon Coetzee	Melbourne

IMPORTANT INFORMATION

Inaugural session

The Minister for Water will inaugurate the conference and exhibition on Monday 2nd December and talk about the importance of water programs in Western Australia.

Exhibition

An exhibition will be held at the venue. The exhibitions will include information and products from consulting agencies, equipment manufacturers and representatives from industry.

Language

The official language of the conference will be English. No translation service will be available.

Participation

The conference will provide the opportunity to bring together scientists, international aid agencies, private institutions, consulting establishments, research institutes and university organisations. We expect 250 delegates to attend the conference, but facilities are available for a much larger number.

Publication

All the papers received will be reviewed and the selected papers will be published in an international journal. This will be decided in consultation with IWA Publishing.

CONFERENCE FEATURES

Free field visits

The conference will offer all delegates a field visit to choose from 3 different streams centered on Small Water Technologies, Groundwater Management and Stormwater Management. Each stream will include a visit to two or more related sites and will be guided by experts at each facility. This will give the participants a unique opportunity to experience technological practices carried out in Western Australia and network with colleagues throughout the afternoon. See website for details.

- Stream 1: Small Water Technologies
- Stream 2: Groundwater Management
- Stream 3: Stormwater Management

Accommodation

Promaco Conventions has reserved a number of accommodations. The university also has a number of low-cost student apartments available, and the Port City of Fremantle and Perth city provide a wide variety of hotels. We encourage delegates to book accommodation through Promaco when registering to get the most competitive rates.

Technical tour

The conference offers delegates 2 different Technical Tours to choose from. Each tour has a different focus and will include a visit to three or more sites with experts at each facility. This will give the participants a unique opportunity to learn about our water industry issues and solutions in Western Australia, network with colleagues throughout the day and to see a little of our beautiful and diverse State. Cost \$A\$110 – see website for details.

Social functions and Gala dinner

The conference offers several networking and social functions. A welcome reception on the first day will enable participants to meet other delegates. The gala dinner will be held on the evening of Monday 2nd December onboard the unique and elegant Crystal Swan floating restaurant. We will be wined, dined and entertained while we take a short trip on the beautiful Swan River. Numbers will be restricted so please register and pay early to ensure your seat at the table.’

Workshops.

Two 3-hour workshops will be held on 1 December:

- Decentralized Domestic Wastewater Treatment - focusing on SDG 6.3 experiences and technical solutions.
- Resource Orientated Sanitation – progress, barriers and solutions towards fulfilling SDG 6 in Australia and around the world.
- The cost for each workshop will be \$75 and \$35 for students.



REGISTRATION FEES

All registration fees are inclusive of 10% Goods and Services Tax GST. The registration fee includes a USB with abstracts, conference papers on USB, attendance at conference sessions, half day local tour, welcome reception, closing ceremony, lunches, morning and afternoon tea.

	WEB HOT TILL 10 AUG 19		EARLY BIRD TILL 30 SEP 19		REGULAR TILL 30 NOV 19		FINAL	
	IWA Member	IWA Non Member	IWA Member	IWA Non Member	IWA Member	IWA Non Member	IWA Member	IWA Non Member
STUDENT/YWP/ RETIRED	A\$440	A\$590	A\$495	A\$645	A\$550	A\$700	A\$660	A\$810
STANDARD	A\$660	A\$810	A\$770	A\$920	A\$990	A\$1040	A\$1496	A\$1646
DAY REGISTRATION	A\$230	A\$230	A\$330	A\$330	A\$385	A\$385	A\$495	A\$495

Other fees

DDWT Workshop

Standard A\$75
Student A\$35

ROS Workshop

Standard A\$75
Student A\$35

Gala Dinner

Delegate A\$55
Guest A\$110

Technical Tour

\$110

Field Trips

FREE

IMPORTANT DATES

Last date of abstract submission	15 July 2019
Abstract acceptance letters	25 July 2019
Webhot registration ends	10 August 2019
Early bird registration ends	30 September 2019
Full paper submission	15 October 2019
Standard registration ends	30 November 2019

COMMITTEES

Local Executive Committee

Dr Martin Anda	Murdoch University
Mr Andrew Bruce	WALGA
Mr Robin Connolly	HYDROLOGIA
Dr Stewart Dallas	Josh Byrne and Associates
Dr Jim Davies	JDA Consultant Hydrologists, WA
Dr Sergio Domingos	Water Corporation
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Dr Biji Kurup	Engineers Environmental International Pty Ltd
Dr Kuruvilla Mathew	Murdoch University
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Mr Phil Woolhouse	Institute of Plumbing Australia
Dr Emma Yuen	CRC for Water Sensitive Cities
Mrs Tara Zirakbash	Murdoch University
Dr Hussein Znad	Curtin University

National Organising Committee

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A/Prof Adrian Law Wing-Keung	Singapore

Program Committee

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Dr Philippe Ange Ker Rault	Wageningen University, Netherlands
Prof Michel Torrijos	National Institute of Agronomic Research, France
Prof Guoren Xu	Harbin Institute of Technology, China

FURTHER INFORMATION

Conference Manager: Dr Kuruvilla Mathew

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