



13TH IWA SPECIALIST CONFERENCE ON

## WASTEWATER PONDS AND ALGAL TECHNOLOGIES

MELBOURNE & ONLINE • 3-6 JULY 2022 • #WPAT22

### CALL FOR PAPERS

**The 13<sup>th</sup> IWA Specialist Conference on Wastewater Ponds and Algal Technologies (WPAT22) will be held as a hybrid event, combining a face-to-face program in Melbourne, Australia (3-6 July 2022), with virtual sessions for those unable to attend in person.**

We are looking forward to the specialist group coming together again to share novel approaches to better engineer wastewater pond treatment for better public health outcomes, and to build knowledge of the underlying photosynthetic and non-photosynthetic microbial ecology. We are happy to offer the opportunity for knowledge exchange and networking among participants and hope to create an environment that inspires innovative thinking and generates collaboration, for both our virtual and face-to-face delegates.

[www.globalwaterinstitute.unsw.edu.au/WPAT22](http://www.globalwaterinstitute.unsw.edu.au/WPAT22)



**UNSW**  
SYDNEY

Organised by the University of New South Wales Faculty of Engineering and Global Water Institute



*Image credit: Melbourne Water*

## Location

The face-to-face aspects of the conference will be held at RMIT University, located in the vibrant heart of Melbourne. Melbourne is a cosmopolitan city of about 5 million people, located on Port Philip Bay in south-eastern Australia. The city is renowned as a cultural and educational centre of Australia and is home to many major universities and international sporting events. Melbourne is only a few hours from a diverse range of natural and historical attractions such as the Great Ocean Road, Mornington Peninsula, and the Victorian goldfields. Those attending face-to-face will have the opportunity to visit Western Treatment Plant operated by Melbourne Water.

## Themes

- Wastewater treatment using algae
- Pathogen removal – virus, bacteria and protozoa
- Trace metal removal from wastewaters
- Nutrient control, recovery and reuse
- Removal of emerging organic contaminants – PPCPs / PFAs.
- Recovery of algal-bacterial biosolids from treated effluents
- Energy production from algal-bacterial and other biosolids
- Production of added value commodities from biosolids
- Treated wastewater reuse – human and environment risk management
- Wastewater pond treatment systems: ecology, conservation and biodiversity
- Modelling to aid pond/algal wastewater treatment design and operation
- Case studies – operational, performance and regulatory considerations
- Closed systems for wastewater treatment – photobioreactors
- Impact on climate change – greenhouse gas emissions.

## Extended Abstracts

Those wishing to have the opportunity to present either an oral or poster presentation at WPAT22 should submit a 2-page extended abstract of approximately 1000 words of text.

The extended abstract should be written in plain English and comprise:

- a brief Abstract (~100 words)
- an Introduction (~200 words)
- a method (~200 words)
- results (~300-400 words, 1-2 figures and/or tables)
- conclusions (~100 words)
- References

A template for use can be downloaded on our Abstract Submission page:

<https://www.globalwaterinstitute.unsw.edu.au/wpat22-abstract>.

Please submit extended abstracts via our Abstract Submission page by **6<sup>th</sup> December 2021**.

## Paper Selection Process

Extended abstracts will be reviewed by our Scientific Committee, who comprise international experts covering all themes of the conference.

They will assess your extended abstract taking into consideration the relevance of the aims to our conference themes, the novelty and significance of the research and the quality of the work.

The extent to which the work has been developed, as supported by Figures and Tables, will also contribute to the decision making, with more fully complete studies more likely to be accepted.

The Committee will notify authors of their decision **by 21<sup>st</sup> March 22**.

## Will papers be published?

We aim to publish a select number of the top papers in a special edition of an IWA journal, with details to be released when agreed.

## Registration

It is planned that conference registration will open via the website by the 10<sup>th</sup> January 2022, with an early bird registration deadline of 25<sup>th</sup> April 22.

There will be the option to register as an on-line or face-to-face delegate. More guidelines on virtual presentation format will be released closer to the time. We advise you give due consideration to the impact of the COVID-19 pandemic when deciding whether to attend virtually or face-to-face. Please see our COVID-19 Frequently Asked Questions in this regard at:

<https://www.globalwaterinstitute.unsw.edu.au/wpat22-COVID-19>.

### Key dates summary

- Call for Papers: **19<sup>th</sup> July 2021**
- Extended abstract submission deadline: **6<sup>th</sup> December 2021**
- Registration opens: **10<sup>th</sup> January 2022**
- Author Notification: **21<sup>st</sup> March 2022**
- Early bird registration deadline: **25<sup>th</sup> April 2022**
- **Conference: 3-6<sup>th</sup> July 2022**

## Organising Committee

Associate Professor Rita Henderson, UNSW, Sydney, Australia (**Chair**)

Professor Howard Fallowfield, Flinders University, Adelaide, Australia (**Co-chair**)

Dr Narasinga Rao Hanumanth Rao, UNSW, Sydney, Australia (**Co-secretariat**)

Dr Liah Coggins, University of Western Australia, Perth, Australia (**Co-secretariat**)

Associate Professor Linhua Fan, RMIT, Melbourne, Australia (**Local Committee lead**)

Amanda Hazell, President Victorian Branch Committee at Australian Water Association/Melbourne Water, Melbourne, Australia

Professor Anas Ghadouani, University of Western Australia, Perth, Australia

Andreia Heslin, UNSW Global Water Institute, Australia

Dr Andrew Ward, University of Queensland, Australia

Dr Cesar Moto Filho, Federal University of Minas Gerais, Belo Horizonte, Brazil

Associate Professor Greg Martin, University of Melbourne, Melbourne, Australia

Associate Professor Miller Alonso Camargo-Valero, University of Leeds, UK

Dr Nick Crosbie, Melbourne Water, Melbourne, Australia

Patricia Dalby, UNSW Global Water Institute, Australia

Professor Raul Muñoz, University of Valladolid, Valladolid, Spain (Chair of IWAAlgae 2019)

Dr Matthew Verbyla, San Diego State University, San Diego, USA

## Scientific Committee

Associate Professor Miller Alonso Camargo-Valero, University of Leeds, UK (**Chair**)

Howard Fallowfield, Flinders University, Australia

Raul Muñoz, University of Valladolid, Spain

Adrian Unc, Memorial University of Newfoundland, Canada

Andrew Shilton, Massey University, New Zealand

Armando González Sánchez, Universidad Nacional Autónoma de México (UNAM), Mexico

Benoit Guieyese, Massey University, New Zealand

Bilasse Zongo, Université Nazi Boni, Bobo-Dioulasso, Burkina Faso

Bill Wood, Tasmanian Water Corporation (TasWater), Australia

Bruce Jefferson, Cranfield University, United Kingdom

Cesar Moto Filho, Universidade Federal de Minas Gerais, Brazil

Damien Batstone, University of Queensland, Australia

Daniel Puyol, Universidad Rey Juan Carlos, Spain

Elena Ficara, Politecnico di Milano, Italy

Eugenia J. Olguín Palacios, Institute of Ecology, Mexico

Fabiana Passos, Universidade Federal de Minas Gerais, Brazil

Fernando Feroso, Instituto de la Grasa, CSIC, Spain

Franklin Bailey Green, Allied Engineers, Inc, United States Of America

Gopalkrish Kumar, University of Stavanger, Norway

Grant Allen, University of Toronto, Canada

Haifeng Lu, China Agricultural University, Beijing, China

Ivet Ferrer, Universitat Politècnica de Catalunya-BarcelonaTech, Spain

Jason Park, NIWA, New Zealand

Jean-Philippe Steyer, INRA, LBE, Université Montpellier, France

Joan García, Universitat Politècnica de Catalunya-BarcelonaTech, Spain

John Benemann, Microbioengineering, United States Of America

Koenraad Muylaert, University of Leuven, Belgium

Li Gao, South East Water, Australia

Liah Coggins, University of Western Australia, Australia

Luisa Gouveia, Laboratório Nacional de Energia e Geologia (LNEG), Portugal

Marcos Von Sperling, Universidade Minas Gerais, Brazil

Matthew Verbyla, San Diego State University, United States Of America

Miguel Peña-Varón, Universidad del Valle, Colombia

Navid Moheimani, Murdoch University, Australia

Nick Crosbie, Melbourne Water, Australia

Olivier Bernard, INRIA, France

Pedro A. García-Encina, University of Valladolid, Spain

Peter Ralph, University of Technology Sydney, Australia

Peter van der Steen, IHE Delft Institute for Water Education, Netherlands

Qiuyan Yuan, University of Mantioba, Canada

Rafael Bastos, Universidade Viscosa, Brazil

Rejane da Costa, Universidade Santa Catarina, Brazil

Robert Reinhardt, Algen, Slovenia

Silvia Bolado, University of Valladolid, Spain

Skefos Tsoukalis, Northern Territory Power and Water Corp, Australia

Sofie Van Den Hende, ESPOL, Ecuador

Tania Vasconcelos Fernandes, NIOO-KNAW, Netherlands

Doan Thi Thai Yen, Hanoi University of Science and Technology, Vietnam

Yi Tao, Tsinghua University, China