



ICWRR 2024

IWA-RMTC 2024



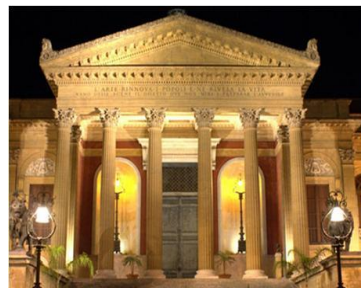
18-21 JUN | PALERMO - ITALY



2nd Call for Abstracts

18 – 21 June 2024
PALERMO, ITALY

International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment & 7th IWA - Regional Membrane Technology Conference



UNIVERSITÀ
DEGLI STUDI
DI PALERMO

www.ICWRR2024.org

Invitation – ICWRR2024

On behalf of the organizing committee, we are very pleased to invite you to Palermo (Italy) for the **International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024)**. The major aim is to create a forum for promoting the discussion amongst scientists, professionals and academia in different areas of the broader theme of water resource recovery from water treatment. The event is the final conference of the **4-year EU project: Achieving Wider-Uptake of water smart solutions – Wider-Uptake**. Eminent keynote wastewater treatment and modelling experts will foster multidisciplinary collaboration and dialogue.

The Conference will cover a wide range of themes, from innovative and nature-based water and wastewater management solutions to circularity assessment tools and environmental policy and legislation. We also hope that your participation to the Conference in Palermo will allow you to explore the rest of Italy and savour its diverse and rich mixture of ethnic traditions, culture, cuisine and religious sites. We look forward to welcoming you to Palermo's colourful and vibrant city and seeing you in 2024.



*On behalf of the Organizers
Giorgio Mannina - Chair of the Conference
Prof. Palermo University, Palermo, Italy*

Invitation – IWA-RMTC 2024

On behalf of the organizing committee, we are delighted to invite you to Palermo (Italy) for the **7th IWA Regional Membrane Technology Conference, IWA-RMTC 2024**.

IWA-RMTC has been running since 2008, following Moscow, Russia (2008), Istanbul, Turkey (2010), Buenos Aires, Argentina (2012), Ho Chi Minh City, Vietnam (2014), Kunming City, China (2016), and Vadodara, India (2018). Palermo will be the meeting point for the 7th IWA-RMTC edition in 2024.

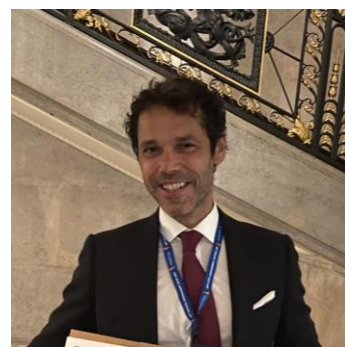
The IWA-RMTC 2024 deals with the main and advanced topics related to membrane technologies for water and wastewater treatment (e.g., novel membrane materials and configurations, energy recovery from water and wastewater, fouling mechanisms and control, membrane process development and optimization, drinking water and wastewater treatment, desalination, etc.) by focusing the attention on the interrelationship among the entire water cycle, environment, and society.

The IWA-RMTC 2024 will be organized jointly with the **International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment (ICWRR2024)**. ICWRR2024 is the final event of the 4-year EU project: Achieving Wider-Uptake of water smart solutions – Wider-Uptake. Eminent keynote Water Reuse experts will foster multidisciplinary collaboration and dialogue.

IWA-RMTC 2024 and **ICWRR2024** will be the perfect match to create a forum for promoting the discussion amongst scientists, professionals and academia on membrane technology and resource recovery. On behalf of the organizing committee, we would like all participants to enjoy the contributors/papers by interested researchers/experts during the conference.



*How Yong Ng
Chair of the IWA Specialist Group on Membrane
Technology
Prof. Beijing Normal University, China
Prof. National University of Singapore, Singapore*



*Giorgio Mannina
Chair of IWA-RMTC 2024
Prof. Palermo University,
Palermo, Italy*

Location of the event

ICWRR2024 and IWA-RMTC 2024 will be held in a peaceful and amazing location of one of the most attractive cities of Italy – Palermo. Palermo is the capital of the island region of Sicily. It is located in the northwestern part of the island of Sicily, right by the Gulf of Palermo in the Tyrrhenian Sea. Throughout the history, Palermo has always been a place, where different points of view have been presented and discussed in search for balanced and sustainable solutions. Powered by the sea, in the summer, Palermo is an exciting venue. Palermo was declared “the most beautifully situated town in the world” by Oscar Wilde – rightly so, in many peoples’ eyes. The conference will be held in one of the corners of the historical city center, which is among the largest in Europe. Within a walking distance you will find the most famous cultural and architectural attractions.



Conference venue

The ICWRR2024 and IWA-RMTC 2024 sessions will be held at the modern Conference building located within the University of Palermo’s Campus. With its 19 rooms, the conference building is an ideal location to host parallel sessions during ICWRR2024 and IWA-RMTC 2024.

The opening session will be held at the Aula Magna of the Engineering Department, located within the University of Palermo’s Campus. The Campus is very close to the city center and is easy to be reached; the main entrance to Campus is just a few meters from the underground station and is also reached by the urban bus service. The University of Palermo’s Campus is located within the Park d’Orléans.

The park was built in the early nineteenth century as a reserve d’Orléans Palace, which currently houses the Presidency of the Sicilian Region. It is also an experimental catchment with measuring (quality and quantity) of an area of 10 ha stations. Further, in 2022 the first Water Resource Recovery Facility was built within the Campus recovering treated water, bioplastics and nutrients from slow release fertilizers.



Conference topics – ICWRR2024

- ✓ Resource recovery from wastewater
- ✓ Wastewater treatment
- ✓ Membrane Bioreactors (MBRs)
- ✓ Greenhouse gases from wastewater treatment; energy optimization; LCA
- ✓ Water Reuse, rainwater harvesting
- ✓ Mathematical modelling of wastewater treatment plants and resource recovery
- ✓ Metagenomics analysis and environmental microbiology
- ✓ Governance and business models, environmental policy and legislation in the water sector
- ✓ Plant-water-soil nexus, fertilizers from wastewater

Conference topics – IWA-RMTC 2024

- ✓ Novel membrane materials and configurations
- ✓ Hybrid membrane processes
- ✓ Drinking water treatment
- ✓ Domestic/industrial wastewater treatment
- ✓ Water reuse
- ✓ Resource recovery from wastewater
- ✓ Energy recovery from water and wastewater
- ✓ Desalination
- ✓ Membrane fouling mechanisms and control
- ✓ Case studies: membrane processes for drinking water and wastewater treatment

Attendance instruction

Three main types of participation are welcome: 1. Platform presenters; 2. Poster presenters, and 3. Attendees without presentations. Extended abstracts of papers should be written in English, and prepared according to the template, which can be found on the conference website: www.ICWRR2024.org.

4-page extended abstract (no more and no less in length) should be submitted by website. Extended abstract submissions from highly motivated colleagues are invited and must be received before **January 12, 2024**. The submitted extended abstracts will be reviewed and the best ones will be selected for oral or poster presentations.

Notification of acceptance will be sent out before **March 12, 2024**. The authors of selected extended abstracts will be invited to prepare and submit (**before June 3, 2024**) full paper for publication in one of the Special issue journals. At least one author of each selected abstract must register for, and attend, the conference to present the paper (this applies to both platform and poster presentations).

IMPORTANT DEADLINES

10 November 2023

Abstract submission open

12 January 2024

Deadline for the submission of abstracts

12 March 2024

Notification of abstract acceptance

12 April 2024

Early bird registration end

2 May 2024

Deadline for revised abstract submission

3 June 2024

Deadline for full paper submission to ICWRR Special Issue Journals



Keynote Speakers



Prof. Eveline Volcke, Ghent University – Belgium

Keynote: N₂O modelling from wastewater treatment: perspective and future challenges

Eveline Volcke is professor at Ghent University, Belgium. She is the founder and head of the 'Biosystems Control (BioCo)' research group, focusing on efficient and sustainable process design and control. Her research aims at process optimization through physical-based modelling and simulation, data treatment techniques and experimental studies. She is an IWA Distinguished Fellow and has served in the IWA World Water Congress Programme Committee since 2015.



Prof. Eberhard Morgenroth, Eawag – Switzerland

Keynote: Water reuse in the frame of circular economy

Eberhard Morgenroth is Professor for Process Engineering in Urban Water Management with appointments at ETH Zürich and at Eawag. At Eawag he is head of the process engineering department. His research interests include wastewater treatment, membrane bioreactors for water reuse, control of biofilms, biofilm reactors, biological drinking water treatment, decentralized wastewater treatment, and energy recovery from wastewater and organic residuals. He is Editor in Chief of Water Research Journal.



Prof. Zhiguo Yuan, City University of Hong Kong – Hong Kong

Keynote: Boosting the transition on water resource recovery at plant-wide approach

Prof Zhiguo Yuan AM is Chair Professor of Urban Water Management at School of Energy and Environment, City University of Hong Kong. He was the Director of the Australian Centre for Water and Environmental Biotechnology at The University of Queensland. He was named as one of Engineers Australia's Top 100 Most Influential Engineers for 2015, and appointed a Member of the Order of Australia in 2019. He is Editor in Chief of Water Research X Journal



Prof. Ana Soares, Cranfield University - UK

Keynote: Advances in nutrient recovery from wastewater

Ana Soares is Professor in Biotechnology Engineering at Cranfield University in the UK. She explores the underpinning science required to develop and manage bioreactors employing new biological organisms, cultures or pathways in order to develop or optimise technologies and deliver the circular economy. Her scientific findings have resulted in leading-edge processes and technological innovations that contribute to sustainable solutions for effluent treatment.



Keynote Speakers



Prof. How Yong Ng, – Beijing Normal University - China

Keynote: Advances in MBR for Water Resource Recovery

Ng How Yong is Provost's Chair Professor in the Department of Civil and Environmental Engineering and Director of NUS Environmental Research Institute and the Director of the Sembcorp-NUS Corporate Laboratory. He has over 20 years of experience in biological wastewater treatment and membrane processes for water reuse and seawater desalination, and has served as a consultant on water reuse as well as seawater desalination in Singapore, China, Japan and the USA. He is Chair of the Management Committee of the IWA Specialist Group on Membrane technology.



Prof. Yongmei Li, Tongi University – China

Keynote: Frontiers in phosphorus removal in circular economy perspective

Yongmei Li is full professor and the head of the Department of Environmental Engineering at Tongi University. Her research interests focus on removal and recovery of nutrients from wastewater, carbon resource recovery from biosolids, fate and attenuation of emerging micropollutants in wastewater treatment plants. She serves as the associate editor of Chemosphere and she is a member of the management committee of the IWA nutrient removal and recovery specialist group.



Prof. Menachem Elimelech, Yale University – USA

Keynote: The role of membranes in resource recovery and the transition to circular economy

Menachem Elimelech is currently Sterling Professor in Chemical and Environmental Engineering at Yale University, USA. Professor Elimelech's research is in the general area of the water-energy nexus. Specifically, the research in his group involves: (i) membrane-based processes for energy-efficient desalination and wastewater reuse, (ii) advanced materials for next-generation environmental separation and water decontamination technologies, and (iii) environmental applications of nanomaterials.



Prof. Damià Barceló, IDAEA-CSIC– Spain

Keynote: Microplastics and other emerging contaminants in the wastewater and sewage sludge: perspective and frontiers

Damià Barceló is Professor at the Institute of Environmental Assessment and Water Studies IDAEA-CSIC (Barcelona) and Director of the Catalan Institute of Water Research (ICRA). His scientific focus is on the Fate and Risk of Emerging Pollutants and on the Water Pollution Control and Protection under Scarcity. In 2007 he was awarded the King Jaime I Prize for the Protection of Nature from Generalitat of Valencia for his outstanding scientific work. He is co-editor-in-Chief of Science of the Total Environment (Elsevier) and other relevant Journals.



Post conference publications

The highest quality extended abstracts will be selected and authors will receive an invitation to submit to cooperating journals for inclusion in special issues after the normal peer review process of the following journals*:

Chemical Engineering Journal, Journal of Environmental Management, Journal of Environmental Engineering, Science of the Total Environment.



* Pending approval



Giorgio Mannina, Italy – Conference Chair

Marion Alliet, France
 Gianni Andreottola, Italy
 Manuela Antonelli, Italy
 Juan Antonio Baeza Labat, Spain
 Damià Barceló Cullerès, Spain
 Damien Batstone, Australia
 Giorgio Bertanza, Italy
 Thallada Bhaskar, India
 Alessandra Carucci, Italy
 Zeynep Cetecioglu, Sweden
 Sumate Chairapat, Thailand
 Kartik Chandran, USA
 Kwang-Ho Choo, Korea
 Raf Dewil, Netherlands
 Menachem Elimelech, USA
 Mathias Ernst, Germany
 Mustafa Evren Erşahin, Turkey
 Giovanni Esposito, Italy
 Francesco Fatone, Italy
 Krist V. Gernaey, Denmark
 Jillian Goldfarb, USA
 Rajni Hatti-Kaul, Sweden
 Zhen (Jason) He, USA
 Herman Helness, Norway
 Marc Heran, France
 Xia Huang, China

David Ikumi, South Africa
 Zoran Kapelan, Netherlands
 Evina Katsou, United Kingdom
 Samir K. Khanal, USA
 Katsuki Kimura, Japan
 Gregory V. Korshin, USA
 Josef Lahnsteiner, Austria
 Duu-Jong Lee, Taiwan
 Demetris Lekkas, Greece
 Yongmei Li, China
 Claudio Lubello, Italy
 Jacek Makinia, Poland
 Simos Malamis, Greece
 Anna Mikola, Finland
 Maite Moreira, Spain
 Eberhard Morgenroth, Switzerland
 Vincenzo Naddeo, Italy
 How Yong Ng, China
 Bruce Ni, Australia
 Alessandra Poletti, Italy
 Alfieri Pollice, Italy
 Angel Robles, Spain
 Paolo Roccaro, Italy
 Jorge Rodriguez, United Arab Emirates
 Ignasi Rodríguez Roda, Spain

Ana Soares, United Kingdom
 Mathieu Sperandio, France
 Maria Eugenia Suarez Ojeda, Spain
 Mohammed Taherzadeh, Sweden
 Rita Ugarelli, Norway
 Peter A. Vanrolleghem, Canada
 Paola Verlicchi, Italy
 Eveline Volcke, Belgium
 Johannes Vrouwenvelder, Saudi Arabia
 Aiji Wang, China
 Jiri Wanner, Czech Republic
 Liu Ye, Australia
 Wilasinee Yoochatchaval, Thailand
 Zhiguo Yuan, Hong Kong
 Maria Chiara Zanetti, Italy
 Antonis Zorpas, Cyprus



Scientific Committee - IWA-RMTC 2024

How Yong Ng, China – Chair of IWA SG on Membrane Technology
 Giorgio Mannina, Italy – Conference Chair

Raja Ben Amar, Tunisia
 Roger Ben Aim, France
 Pierre Berube, Canada
 Kwang-Ho Choo, Korea
 Emile Cornelissen, Netherlands
 Yingchao Dong, China
 Mathias Ernst, Germany
 Despo Fatta Kassinos, Cyprus
 Franz-Bernd Frechen, Germany
 Val Frenkel, USA
 Chung-Hak Lee, Korea
 Zhen (Jason) He, USA
 Chia-Hung Hou, Chinese Taipei
 Xia Huang, China
 Maria Kennedy, Netherlands
 Katsuki Kimura, Japan
 Ismail Koyuncu, Turkey
 Woei Jye Lau, Malaysia

Pierre Le-Clech, Australia
 Jaewoo Lee, Korea
 Kibaek Lee, Korea
 Duc Long Nghiem, Australia
 Siew Chun Low, Malaysia
 Vincenzo Naddeo, Italy
 Hyun-Suk Oh, Korea
 Gideon Oron, Israel
 Hokyoung Shon, Australia
 Johannes Vrouwenvelder, Saudi Arabia
 Zhiwei Wang, China
 Zongli Xie, Australia
 Boyan Xu, China
 Kazuo Yamamoto, Japan
 Linda Zou, Abu Dhabi
 Kuichang Zuo, China

REGISTRATION FEES

Early bird (up to 12 April 2024)

IWA Member	795 €
IWA Member (low income country)	755 €
Non IWA Member	895 €
Students*	595 €

After 12 April 2024

IWA Member	895 €
IWA Member (low income country)	855 €
Non IWA Member	995 €
Students*	645 €

*Does not include Gala Dinner

CONTACTS

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