

3rd MSA MEMBRANE WORKSHOP

Integration of Oxidation and Membrane Technologies

Oxidation processes including ozonation and UV/H₂O₂ have been increasingly used as pre- and post-treatment for membrane processes. While membrane processes and oxidation technology can be used as independent treatment processes, the combination of these technologies has the potential to achieve high quality water and/or fouling reduction suitable for a number of applications. This workshop provides an introduction to ozone and UV/H₂O₂ and is aimed at membrane researchers and engineers. The workshop will also focus on the latest techniques available to control fouling and methods to improve the quality of RO permeate and concentrate.

Tuesday 18th of November 2014

9:45 am – 6:00 pm

Venue

Victoria University City Flinders Lane campus, 301 Flinders Lane, Melbourne

<http://www.vu.edu.au/campuses-services/our-campuses/city-flinders-lane>

Pricing information

MSA members: FREE

Others: \$50

Registration

Deadline: 7 November 2014

Places limited (50 seats), so register now by using an online registration form below.

[Online Registration](#)

Program coordinator: Takahiro Fujioka (workshop@membrane-australasia.org)

MSA Website: <http://www.membrane-australasia.org/>

Program Schedule

9:45 – 10:00 Arrival - Registration

10:00 – 10:05 Welcome Address

Oxidation Technology

10:05 – 10:55 **History of Ozone**

Paul Rutherford, Mitsubishi Electric

10:55 – 11:45 **Advanced Oxidation Process**

Louis Wiart, Xylem Water Solutions

11:45 – 12:15 **Ozonation at the Eastern Treatment Plant**

John Mieog, Melbourne Water

12:15 – 1:10 Lunch Break (No catering provided)

Combined Oxidation and Membrane Technologies

1:10 – 1:40 **Pre-ozone/Membrane: A Multi Barrier Approach**

Paul Rutherford, Mitsubishi Electric

1:40 – 2:10 **Behaviour of organics during combined ozone and ceramic microfiltration of recycled waste water**

Mikel Duke, Victoria University

2:10 – 2:40 **Fouling control of MF by backwashing with ozonated water**

Takahiro Fujioka, University of Wollongong

2:40 – 3:00 Coffee Break (Coffee and snacks will be served)

3:00 – 3:30 **Fouling of Ceramic Membranes by Algal Organic Matter and the Effect of UV/H₂O₂ on Fouling Mitigation**

Linhua Fan, RMIT University

3:30 – 4:00 **Post Membrane Filtration: Impact of UV/H₂O₂ and Final Disinfection on Disinfection By-products**

Katrin Doederer, University of Queensland

4:00 – 4:30 **Ozonation of Trace Organic Chemicals in the Reverse Osmosis Concentrate from Water Recycling Applications**

Takahiro Fujioka, University of Wollongong

4:30 – 6:00 **Networking**



Sponsor



The Membrane Society of Australasia

<http://www.membrane-australasia.org/index.html>

Teleconferencing for the workshop

For those who wish to attend the MSA Workshop remotely, the MSA is offering a website-style workshop that allows remote participants to watch the presentations and give questions in real-time from a conference room set up in NSW, QLD and WA. The remote workshop will be followed by networking at a local bar.

Places limited (25 seats for each location), so register now by using an online registration form below.

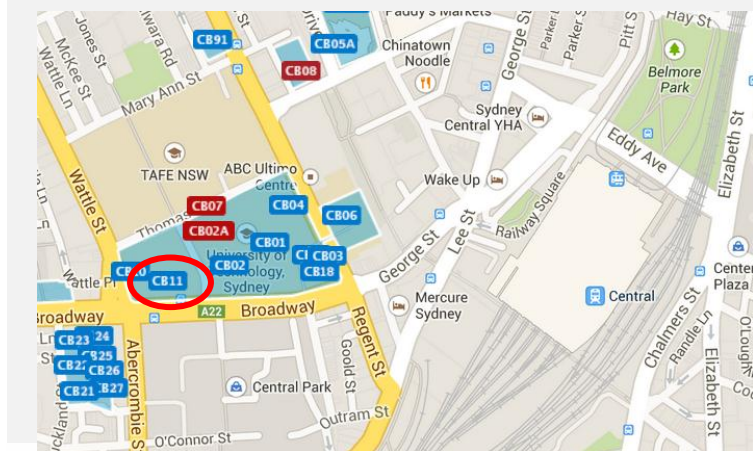
Online Registration

1. New South Wales

Venue: University of Technology Sydney, 15 Broadway, Ultimo NSW 2007
Building 11 (CB11), Level 12, room 113
<http://maps.uts.edu.au/map.cfm>

Start: 9:45am – 6:00pm

Local coordinator: Thanh Nguyen, tienthanh.nguyen@uts.edu.au

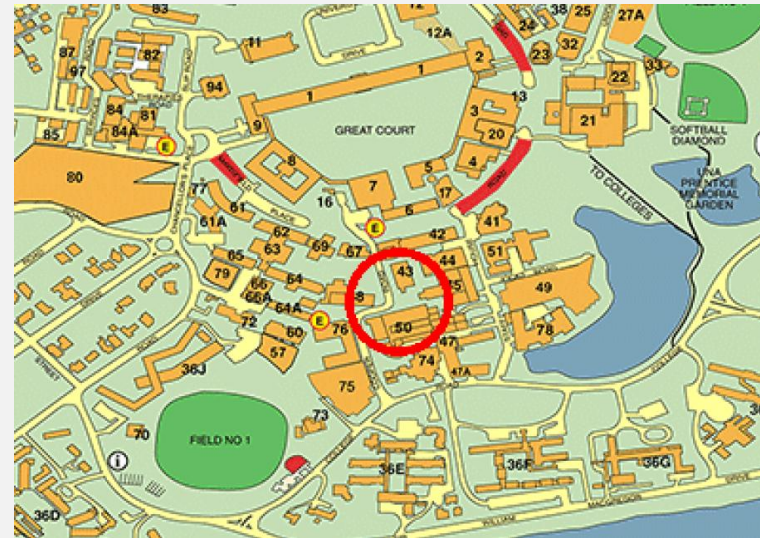


2. Queensland

Venue: University of Queensland, St Lucia, Brisbane QLD 4072
Hawken Building (50), Level 4 - room S406B
<http://www.uq.edu.au/maps/directions.html?menu=1>

Start: 8:45am – 5:00pm

Local coordinator: David Wang, d.wang1@uq.edu.au



MSA Website: <http://www.membrane-australasia.org/>

