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About MSA

The Society aims to represent and promote the activities in membrane science and technology both in the research and industrial sectors.

Our Vision

- To be the nexus of membrane science and technology activity in the Australasia region;
- To promote collaborative engagements across the community to disseminate membrane technology to end users; and
- To capture current research and industry involvement and highlight future trends.

Our Mission

The MSA is to represent Membrane Science and Technology in Australasia realising that this will be aligned with societal needs.

This will be achieved by:

- providing an open forum for transferring and sharing technologies as well as capabilities within the members, industries and high education organizations;
- supporting multidisciplinary networking events;
- providing leadership and mentorship in membrane science for the Australasian membrane community;
- promoting opportunities for young members; and
- and enabling wider understanding of the membrane technologies for public interest.



Messages From the President & Vice President

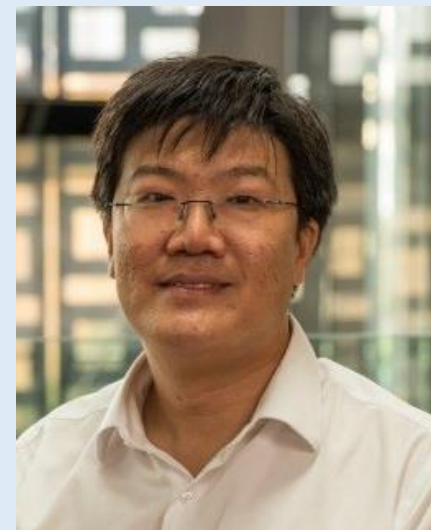
First of all, we would like to mark the 10th Anniversary of the MSA spirit. The MSA was registered on January 14th 2009 and launched at Victoria University on May 5th 2009, with more than 50 attendees from industry and research institutions. Since then we have continued to grow, providing a platform to students, researchers and companies to share, promote and support the development and application of membrane technologies in Australasia, Asia and the world. To celebrate the 10th anniversary, we are funding a series of travel awards to attend important regional membrane conferences. If you or anyone you know are planning on attending these events, we would like to remind you to apply for the supporting awards (IMSTEC 2020 ([direct link](#)); The 12th conference of the Aseanian Membrane Society ([AMS12](#)); International Membrane Conference in Taiwan ([IMCT 2019](#)); Membrane Science & Technology ([MST2019](#)); The 2nd International Conference on Energy-Efficient Separation ([iEESEP 2019](#)); Desalination Using Membranes ([MemDes](#))).

We would like to acknowledge two recent successful MSA events; the 6th MSA ECR Symposium held at The University of Melbourne in January 2019, and the 1st MSA Distinguished Lectureship series in March 2019. The 6th MSA ECR Symposium at The University of Melbourne was very successful and we congratulate Dr George Chen and the Organising Committee for running a great Symposium. The MSA's Distinguished Lectureship series welcomed Prof. Robert Field from the University of Oxford, who presented four research seminars in Melbourne and Sydney. Prof. Field gave a wonderful series of lectures. We would like to thank Prof. Xiwang Zhang, Prof. Tony Fane and the hosting organisations for their help in making this series such a successful event.

In the recent months, MSA has been working to improve our communications with our members and the membrane community through this Newsletter as well as weekly e-Updates, and Twitter, Facebook and LinkedIn news. We would like to acknowledge Dr Stefan Smith, Dr David Wang and Dr Andrea Merenda for their dedicated contributions. If you have any membrane technology related news you would like to share with the MSA community, please be sure to post to any of our social media platforms.

We would like to offer our sincere appreciations to Prof. Greg Leslie and bid him farewell as a MSA Board of Director. For a number of years, Greg contributed to much of the enhanced international engagement and travel awards of the MSA. Due to his other commitments as Director of UNSW's Global Water Institute and Deputy Head of School, Greg formally resigned from MSA but will remain as an important advisory member of the society. We wish him all the best.

In growing and supporting our membership, MSA is committed to encouraging local and regional activities by supporting workshops and conferences, travel awards, mentoring opportunities for young researchers, our Distinguished Lectureship series, and bringing internationally significant events to the region, such as bidding for the 2023 International Congress on Membranes & Membrane Processes (ICOM 2023). We would like to encourage our members to take advantage of these opportunities, and we look forward to seeing you at the next MSA event.



Prof. Hokyong Shon, President

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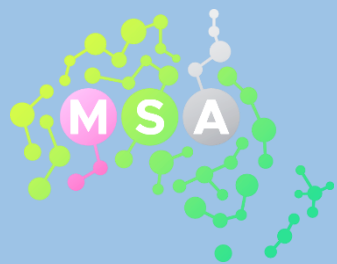
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Dr George Chen (Chair)
The University of Melbourne

Early Career Researcher Symposium Highlights

This year, 6th edition of the MSA Early Career Researcher Symposium (30 January – 1 February) was sponsored by MSA and chaired by Dr George Chen and Andrea Merenda (Vice-Chair).

The event was held at the University of Melbourne. More than 60 attendees, including three MSA international travel award recipients from Europe and Asia, joined the event. Among the five major symposium topics, including wastewater treatment, desalination, membrane for biological and pharmaceutical applications, gas separation, advanced membrane materials, 8 keynote speakers and 28 students/ECRs shared their outcomes and advances on membrane science and separation technologies.

MSA is also very proud to support several Travel Awards to a number of international and domestic PhD students and ECR members to present their research work at the 6th MSA ECR Symposium, and enabled them with networking opportunities and career development workshops. Please see the Travel Award page for other upcoming opportunities.

Participant group photo



International (AUD 1,200)

- Gaetan Blandin (Lequia, University of Girona, Spain)
- Marine Michel (Imperial College London, UK)
- Akbar Asadi Tashvigh (National University of Singapore, Singapore)

Domestic (AUD 300)

- Muhammad Bilal Asif (University of Wollongong)
- Federico Volpin (University of Technology Sydney)
- Ziwen Yuan (University of Sydney)
- Changyong Zhang (University of New South Wales)
- Lei Zheng (University of Technology Sydney)



Prof. Michael Guiver

The MSA was pleased to host **Prof. Michael Guiver** as invited speaker at the symposium dinner, held at the Wharf Hotel in Southbank, Melbourne. Prof. Guiver presented his career in chemistry and membrane science, spanning across three continents, encompassing the turning points and sliding doors that he faced and the challenges that young students and ECR have to expect and overcome.



Symposium attendees group photo during symposium dinner

Early Career Researcher Symposium Highlights

Other Symposium highlights and activities include:

Keynote speakers

- **Prof. Amanda Ellis** (University of Melbourne): “Chemical modification of RO membranes for antifouling”.
- **Dr. Kristina Konstas (CSIRO)**: “Advances in membrane materials and applications”.
- **Dr Nicholas Low** (2D Water Pty Ltd): “Multifunctional Polymer-Boron Nitride Nanosheet Nanofiltration”.
- **Mr Brent Marshall** (Smart Membrane Solutions, New Zealand): “Dairy Membrane Applications and Industry Challenges”.
- **Dr Fu Qiang** (The University of Melbourne): “Advanced membrane materials for efficient CO₂ capture”.
- **Dr Colin Scholes** (The University of Melbourne): “Helium separation and purification through polymeric membranes”.
- **Dr Filicia Wicaksana** (The University of Auckland): “Membrane fouling mitigation: its effectiveness and suitability for wastewater treatment and food processing”.
- **Prof. Xiwang Zhang** (Monash University): “Tuning water and ion transport in nanochannel membranes for water processing”.

Also, we would like to congratulate the following oral presentation award winners:

- Jianhua Zhao (Gas and Vapor Separation)
- Lavern Nyamutswa (Water Treatment)
- Daniel Athayde (Advanced Materials)
- Munirah Mohammad (Bio and food applications)

Congratulations to best poster award winner:

- Federico Volpin (UTS)
- Sungil Lim (UTS)

The symposium received a very positive feedback from the participants and the invited speakers. On behalf of the Organizing Committee, We would like to express our gratitude to the attendees, invited speakers and sponsors for making the 6th MSA ECR symposium such a successful event.

We look forward to seeing you next year in Sydney! (MSA ECR Symposium pre IMSTEC2020 conference)

Andrea Merenda

MSA ECR Symposium vice chair
Secretary of the Membrane Society of Australasia



Andrea Merenda (Vice-Chair)

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Symposium organising committee group photo



Invited Scientific Seminar

Professor Michael Guiver

Tianjin University
National 1000 Plan Foreign Expert
Tianjin, Tianjin | China



Prof Michael Guiver was invited by ARC-EESEP to visit Monash University in January to deliver an invited scientific seminar/webinar, entitled "Research developments in polymeric membranes for CO₂ separations at Tianjin University".

In 2014, he was appointed as a National 1000-Plan Foreign Experts Professor at the State Key Laboratory of Engines, Tianjin University. He is a well-known journal editor of a prestigious international membrane science journal, *Journal of Membrane Science* since 2009. He is also on the Editorial Advisory Board for *Macromolecules* and *ACS Macro Letters*, on the International Advisory Board of *Macromolecular Research* and on the Editorial Board of *Polymers*.

In the seminar, he presented several new approaches to designing membranes having both high gas permeability and permselectivity.

(1) Tuning inter-channel spacing in horizontally-aligned graphene oxide layers provides ultra-micropores and a chemical environment by which CO₂ separation can be achieved by solution-diffusion, molecular sieving and facilitated transport.

(2) Vertically-aligned Montmorillonite provides short pathways through the selective layer to achieve high CO₂ permeance.

(3) A new class of materials: hybrid-type MOFs, whereby polymer chains are incorporated as building blocks and metal ions are connected to the polymer through small organic linkers.

The seminar was attended by 60 guests in Monash and through webinar meeting at University of Sydney.

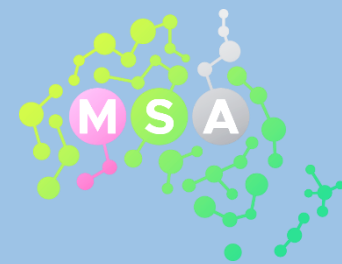


Prof. Xiwang Zhang and Prof. Michael Guiver

Distinguished Lecture Scholar

Professor Robert Field

University of Oxford
Professor of Engineering Science
Fellow of Balliol College
Oxford, United England



Prof. Robert Field was awarded the MSA's inaugural Distinguished Lecture Scholar this year which marked the significance of the 10th Anniversary of the MSA. MSA was delighted to sponsor and organise Robert's trip (2-10 March) along with the host universities to deliver a lectureship series at,

1. Monash University
2. University of Melbourne
3. University of Technology Sydney
4. University of New South Wales

Professor Robert Field graduated with a PhD (chemical engineering) from University of Cambridge. He soon secured a prestigious Royal Academy of Engineering award to work on the evaluation of potential membrane processes for environmental improvements at Bath University. His most highly cited research relates to the concept of a critical flux for fouling which has had widespread influence beyond academia. He is currently a Professor at the University of Oxford where his current work includes an interdisciplinary study "Exploring Water Re-use – the nexus of engineering technology and public policy" which is funded by an esteemed APEX award from the Royal Society/British Academy.

In the Distinguished Lectureship series, he presented a talk, titled "Water, Membranes and Water Re-use: Wither this Triptych?" and described the advent of nano-materials change the optimal flux for recycling and re-using water. Furthermore, he also discuss the future modules and future water processes with the audience.

Seminar group photo at UTS



"Triptych" photo of Prof. Tony Fane, Prof. Robert Field, Prof. Hokyong Shon



Prof. Robert Field and Prof. Xiwang Zhang at Monash University



MSA Funding Support Programs

MSA Workshop Funding Support

This program provides funding support to membrane-related events such as workshop and symposia that are held in Australasia.

Who can apply for the MSA workshop support program?

All MSA members can apply for funding support from the MSA.

Funding use – What the MSA workshop funding support program is for?

Financial support is provided for activities and projects that are beneficial to membrane technology in Australasia. This includes a range of activities, such as:

Sharing of knowledge on one particular topic related to membrane technology in the laboratory, pilot or full scale level,

Dissemination of results/outcomes at the end of a project and highlight future trends,

Promoting new activities.

Funding support is available to help out with:

Administrative activities (e.g., venue, materials),

Catering (e.g., cost of lunch, coffee),

Sponsoring speakers (e.g. travel and accommodation expenses),

Awards,

Free or discount registration fees for ECR.

A maximum of \$2,000 per event will be allocated.



Dr Leonard Tijing

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How to apply?

The application form ([click to download](#)) must be submitted to the MSA Workshop Committee at least 3 months before the date of the event with the subject “MSA Workshop funding application”. Please advise the MSA as soon as possible of any planned event so that we can consider it for budgeting. The chances of success are likely to be improved by an early application. The outcome of the application will be announced approximately 1 month after the submission of the application.

Conditions

To qualify for this funding program, your group has to meet the following terms and conditions:

Matched funding – your application must include at least an equal monetary or in-kind contribution from you or your project partners;

Registration fees – the event should provide free or more than \$50 discount registration fees for MSA members;

Reporting – write a short article on the event for publication in the MSA newsletter, highlighting relevant points of interest to MSA members (this is a requirement before reimbursement is given);

Acknowledgment – the MSA (including the logo) must be acknowledged for providing financial support in all printed media (programs, flyers, cover slides, websites, etc.) and presentation materials.

Contact us

If you would like further information on the MSA funding program, contact

Funding program coordinator: Dr Leonard Tijing (funding@membrane-australasia.org or Leonard.Tijing@uts.edu.au).

MSA Funding Support Programs

MSA Travel Award Program for AMS12 is now open!

In order to assist MSA members (students and early career researchers (ECRs)) to attend the 12th Aseanian Membrane Society (AMS12) international conference in Jeju, Korea in July 2019, **the MSA will sponsor travel awards to support their conference registration costs (amounting to around A\$400 – A\$700 each)**. The MSA executive will directly pay the registration costs of the award recipients to the AMS12 organizing committee. The award winners will be announced to all MSA members.

(ECRs here are defined as those researchers within 5 years post-PhD graduation)

Eligibility

Must be a current member (HDR student or ECR) of the MSA

Must have their abstract accepted and be the presenting author of an oral or poster presentation at the conference

Must not have previously won a travel grant from MSA during the calendar year

Selection Criteria

Applicants will be selected by a panel of judges according to their track record relative to opportunity, the quality of abstract and significance of research, justification of eligibility and the need for financial assistance.

Travel Funding use – What the MSA grant support program is for?

This travel award is provided specifically for the sponsorship of AMS12 conference registration.

Dr Leonard Tijing

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How to apply?

The application form ([click to download](#)) must be submitted via email to the MSA Travel Funding Committee (funding@membrane-australasia.org) with the subject line: “**AMS12 travel award application**” at the announced deadline.

The outcome of the application will be announced within 6 weeks after the deadline.

MSA travel award application submission deadline: 18 January 2019

Conditions

To qualify for this travel funding program, the awardee has to meet the following terms and conditions:

Reporting – write a short article as a contribution to the MSA Newsletter, highlighting relevant points of interest to MSA members (can be about the conference or other member-related topics);

Acknowledgment – the MSA (including the logo) must be acknowledged for providing financial support in the presentation materials.

Contact us

If you would like further information on the MSA travel funding program, contact

Travel funding program coordinator: Dr. Leonard Tijing (funding@membrane-australasia.org or Leonard.Tijing@uts.edu.au)

New MSA Funding Initiative I

New MSA initiative: The Tony Fane Award

Dr Leonard Tijing

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Tony Fane Award Scheme

The Membrane Society of Australasia (MSA) seeks to recognize individuals who have made outstanding and distinguished contribution to the advancement of membrane science and technology in Australasia through the Tony Fane Award. Nominations for this award will be assessed by an assessment panel appointed by the MSA Board. The nominee need not be a member of MSA to be eligible but it requires independent nomination. The panel will base their assessment on the track record of the nominee, the strength of claims and evidence provided to support the claims, and the long term contribution and the difference made by the nominee to the membrane field and community in Australasia. After the panel has deliberated and selected the award winner, they will forward the decision to the MSA Board for final confirmation. Awarding of the Tony Fane Award will be given during the gala night of an MSA-sponsored major conference (such as the International Membrane Science and Technology (IMSTEC) conference). The panel and the board reserve the right not to award any nominees in the respective year if no one meets the expected quality and calibre for an awardee.

The Tony Fane Award winner will receive a plaque of recognition and inclusion in the Tony Fane Award gold tablet list of distinguished membranologists.

Eligibility and how to nominate

Only MSA member can nominate an individual for the Tony Fane Award. The nominee need not be an MSA member to be eligible. Current MSA board members and those involve in the assessment panel are not eligible to nominate and be nominated for the award. Any board member who may have conflict of interest with the nominated individual should not be part of the assessment panel.

The nominator should submit a completed nomination form and supporting documents:

- Complete details of the nominee and the nominator
- A synopsis (max 500 words) of why the nominee is deserving of the Tony Fane Award – describe and demonstrate the nominee's distinguished contribution to the membrane field and community, and how the nominee has made a difference
- Any documents to support the claims including short biography (100 words) and CV of the nominee

When and how to submit the nomination

Completed nomination form (Word or PDF) should be emailed to the Tony Fane Award panel to (funding@membrane-australasia.org) on or before the announced due date. Late and/or incomplete submissions will not be accepted by the panel. **Open submissions and further details (including nomination form) for this award will be communicated to all MSA members sometime in 2019. Nominations are still close at this time.**

Notification of award winner

The Tony Fane Award winner will be notified by the MSA Board a few months before IMSTEC conference. The award will be presented during the gala night of an MSA-sponsored major conference unless advised otherwise. The winner will also be highlighted on the MSA Newsletter, websites, and related social media sites.

New MSA Funding Initiative II

Distinguished Lecture Scholar

This program provides funding support to the visit of international **Distinguished Lecture Scholar** in membrane-related fields to Australasia.

Who can apply for the MSA Distinguished Lecture Scholar funding support program?

All MSA members can apply for the funding support from the MSA.

Funding use – What the MSA Distinguished Lecture Scholar funding support program is for?

Financial support is provided for visiting activities that are beneficial to membrane community in Australasia. This includes a range of activities, such as (1) sharing of knowledge on one particular topic related to membrane technology in the laboratory, pilot or full scale level, and (2) scientific lectures/seminars.

Funding support is available to help out with:

- Catering (e.g., cost of lunch, coffee),
- Travel and accommodation expenses,

A maximum of \$5,000 per scholar will be allocated.



Prof. Xiwang Zhang

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How to apply?

The application form must be submitted to the MSA at least 2 months before the date of the visit. Please advise the MSA as soon as possible of any planned visit so that we can consider it for budgeting. The chances of success are likely to be improved by an early application. The outcome of the application will be announced approximately 1 month after the submission of the application.

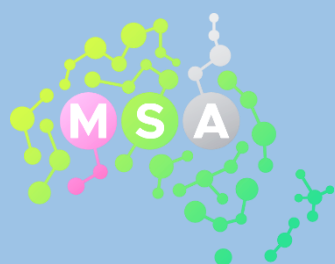
Conditions

To qualify for this funding program, your application has to meet the following terms and conditions:

- Matched funding – your application must include at least an equal monetary contribution from other sources to support the visit;
- The scholar must be an outstanding, world-renown expert in membrane-related fields;
- The scholar must give ≥ 2 scientific seminars in different universities;
- Reporting – write a short article on the event for publication in the MSA newsletter, highlighting relevant points of interest to MSA members;
- Acknowledgment – the MSA (including the logo) must be acknowledged for providing financial support in all printed media (programs, flyers, cover slides, websites, etc.) and presentation materials.

Contact us

If you would like further information on the MSA funding program, contact The coordinator of the **Distinguished Lecture Scholar** funding support program: Professor Xiwang Zhang (support@membrane-australasia.org or xiwang.zhang@monash.edu).



MSA Communication Forum



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MSA Secretary

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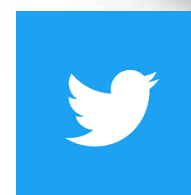


One of the MSA objectives arising from our strategic meeting in 2018 is to ensure our members stay up-to-date of the membrane-related development, events and news by enhancing our communications with our members and the community.

Given the very nature of the way we use social media – often through mobile applications and online chat rooms, we want to improve ways of interacting and communicating news with our members more quickly and effectively.

This year, we are now rolling out a suite of forums and dissemination media such as e-Updates (via MailChimp), Twitter, Facebook and LinkedIn online platforms to readily and easily share news with the MSA community.

We will keep a close eye on the effectiveness and efficacy of these communication platforms, and more importantly, we will regularly monitor the levels of engagement of our members to further offer a communication system that is purposeful and sustainable.



Quarterly Newsletter

Every quarter, MSA Newsletter publishes important pieces of news, events and research highlights related to membranes and membrane technologies. You are encouraged to get in touch with the Newsletter Editor, David Wang, to contribute a piece of news-worthy article or two from an area of your work, research or group. To facilitate this process, we have formed a team of Newsletter Taskforce based on Board nominations and their relevance to membrane field. Please welcome them to the MSA family during news gathering time by offering your kind assistance.

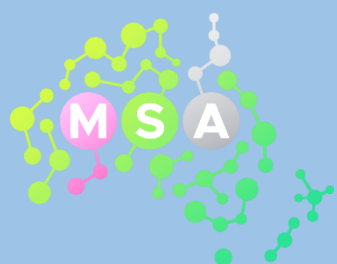
Should you wish to nominate someone in your state / in your research group for the Taskforce, please get in touch with the Newsletter Editor.



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Taskforce Member / Project	Supervisors	UNI
NSW		
Mr Gholamreza Vahedi Sarrigani <i>Interfacial Diffusion Membrane Using Novel Nanoconfined Polymer Crystallization for Natural Gas Processing</i> – First year PhD	Dr David Wang Prof Dianne Wiley	USYD
QLD		
Miss Nur Hafizah Ab Hamid <i>Forward Osmosis (FO) Membrane-based Technology in Urban Wastewater Treatment</i> – 3 rd year PhD	Dr Liu Ye Dr Simon Smart Dr David Wang	UQ
VIC		
Dr Ze Xian Low <i>From membrane material synthesis to fabrication and function (SynFabFun)</i> – 3 rd year Postdoc	Prof Xiwang Zhang	MonashU
Mr Riyadh Al-Attabi <i>Functional Electrospun Nanofibers Membranes for Nanomaterials Filtration</i> – 3 rd year PhD	Prof Yosry Morsi Dr Ludo Dumée	DeakinU



Dr Zongli Xie

Membership Coordinator
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Ordinary Membership

In 2009, the MSA was founded with the goal bringing together key academics, industrial professionals, and emerging membranologists to further membrane science and technology within Australasia. Becoming an MSA member means connecting with a whole community of people who are dedicated to the same important goal. The MSA is launching a campaign to renew the membership program by providing more benefits to its current and future members. It is a great pleasure for me to introduce the membership with newly rolled out benefits:

All paid Members have the right to:

- attend and to speak at general meetings;
- nominate, to be nominated and to be appointed a Director; and
- vote at general meetings and on resolutions put to the membership.

Customised MSA Website and Social Media Alerts

Visit our new web home, the upgraded MSA website with more options and tools. Receive up-to-date information on domestic and international research, upcoming conferences, commercial new products via MSA website and email-alert targeted for Academic members. Follow the MSA on the most well-established social networks, i.e. [Twitter](#), [Facebook](#) and [LinkedIn](#).

MSA e-update

Do not miss out on the most important membrane-related headline news. The MSA is launching a brand-new fortnightly electronic update, containing membrane news, recent publications, job opportunities and funding information. Our staff will collect the most important news for you, just one click away.

Discounted rates at MSA or MSA sponsored conferences

From membrane science and technology basics to recent advances and breakthrough outcomes. The MSA promotes during the year seminars, workshops and conferences encompassing a wide range of membrane topics. Discounted fees and the possibility of joining via webinar will be offered to all the MSA members.

All these plus all the usual benefits:

Vast membrane society networks

Networking platforms with other MSA members and industry partners along the MSA-sponsored events.

Exclusive member awards, benefits and savings

Apply for travel awards and scholarships to attend international conferences and visit fellow academic partners worldwide.

Corporate Membership

The benefits and MSA-sponsored features for Corporate Members include:

Included multiple individual memberships

The corporate membership will include up to 5 individuals from your company annually, the membership is interchangeable in case of employment change or under similar circumstances.

Corporate corner

Joining other membrane elites in Australia and overseas, you will gain higher exposure rates as your company is featured in MSA website's Corporate directory.

Customised MSA Website and Email Alerts

Stay in the front line of membrane world as you will receive up-to-date information on research, international news, commercial new products via MSA website and email-alert targeted only for Corporate members.

MSA e-update

Advertise new product information and new job opportunities via the MSA's fortnightly electronic update, containing membrane news, recent publications, job opportunities and funding information etc.

Discounted rates at MSA or MSA sponsored conferences

Now and then, MSA hold or sponsors seminars, workshops and conferences in a wide range of membrane topics and at various venues, corporate members will be eligible to enjoy reduced (and sometimes FREE) conference registration rates. Also, opportunities to set up company promotional booth in conferences may also be available, subject to applications and in the sole discretion of MSA committees.

All these plus all the usual perks:

Vast membrane society networks

Be able to link and cross network with other membrane companies and individual professionals in MSA member community in Australia and internationally.

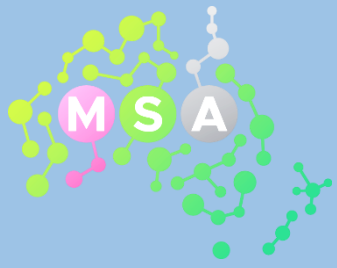
Exclusive member awards, benefits and savings

Access to application of travel awards, scholarships etc.

We encourage you and your team to visit our website and membership program and get in touch with our Membership Coordinator, Dr Zongli Xie (E: Zongli.Xie@csiro.au) to discuss the membership details:

<https://membrane-australasia.org/>

<https://membrane-australasia.org/product/membership/>



ECR Membrane Symposium 2020 is Australia's premier symposium for membrane scientists and engineers in the early stages of their career. Organised by the Membrane Society of Australasia, the **7th MSA ECR symposium** will be held from 31 January – 1 February 2019 at University of Technology Sydney.

The purpose of the symposium is to offer a platform for exchanging ideas and thoughts whilst developing career and scientific communication skills. The symposium will bring together both students and young professionals in membrane science and technology from Australasia. Further information can will be released by the organising committee on the MSA website.



An exciting upcoming event is the **10th International Membrane Science & Technology Conference** organised by MSA will be held from 2 to 6 February 2020 at the University of Technology Sydney, Sydney, New South Wales.

The International Membrane Science & Technology Conference is attended by industry and academic leaders and focuses on advances in all areas of membrane science and technology, with particular attention on water treatment, food processing, energy production and material characterisation. The IMSTEC conference program will include formal presentations and poster sessions of its scientific program as well as keynote presentations from leaders from academic and industry. The conference will also include a number of industry relevant workshops and tours of local sites featuring membrane operations.

Do not miss out on the official IMSTEC2020 call for abstracts. The abstract submission will be available shortly. The IMSTEC2020 Organising Committee will release the list of Plenary Speakers, including renowned membrane experts and researchers across four different continents. Stay in touch with the MSA to receive all the relevant updates on IMSTEC2020. For more information, please visit www.imstec2020.com/ or contact secretary@imstec2020.com.

2019/2020 Key Membrane Events

CURRENT EVENT	2019 DATE	ABSTRACT DEADLINE
<p>Small Molecule Control of Membrane Biofouling University of Arizona, USA aquamem.com/special_pages/SMCMB/index.html</p>	31 Mar – 3 Apr	Expired
<p>Engineering with Membranes – EWM 2019 Båstad, Sweden ewm2019.eu</p>	8 – 10 Apr	Expired
<p>14th International Conference on Membrane Science & Technology Nanyang Technological University, Singapore memsis.org/mst2019</p>	7 – 9 May	Expired
<p>28th North American Membrane Society Annual Meeting Pittsburgh, USA nams2019.org</p>	11 – 15 May	Expired
<p>12th Conference of Aseanian Membrane Society Jeju, Korea www.ams12.org</p>	13 – 14 Jun	Expired
<p>2nd International Conference on Energy-Efficient Separation Melbourne, Australia www.arc-eesep.org/ieesep2019</p>	27 – 30 Nov	1 May
<p>4th International Conference on Desalination using Membrane Technology Perth, Australia www.elsevier.com/events/conferences/desalination-using-membrane</p>	1 – 4 Dec	31 May
	2020 DATE	
<p>10th International Membrane Science & Technology Conference University of Technology Sydney, Australia www.imstec2020.com</p>	2 – 6 Feb	TBA
<p>29th North American Membrane Society Annual Meeting Tempe, Arizona nams2020.org (under construction)</p>	16 – 20 May	TBA
<p>16th International Conference on Inorganic Membranes Taipei, Taiwan www.icim2020.org</p>	29 Jun – 2 Jul	TBA
<p>International Congress on Membranes & Membrane Processes 2020 London, UK www.icom2020.co.uk</p>	12 – 17 Jul	TBA

Corporate Member Flyer

Company Profile:

Evoqua Water Technologies has been a corporate member of MSA since 2009. Evoqua is internationally recognised as a leader in the development of polymeric hollow fiber membranes and membrane systems for water treatment processes and new applications.



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1985

MEMCOR DEVELOPS CMF LOW PRESSURE CONTINUOUS MEMBRANE FILTRATION

1998

MEMBRANE OPERATING SYSTEM (MOS) INTRODUCED

1999

RACK ASSEMBLY INCORPORATED IN DESIGN

2001

IMPORTANCE OF MLSS DISTRIBUTION IDENTIFIED

2007

LOW ENERGY STEP CHANGE WITH PLUG FLOW AERATION

2017

INTEGRITY TESTING FOR IPR - DPR INTRODUCED

1995

DEDICATED MBR TEAM ESTABLISHED

2003

PRIMING VIA EDUCTORS INTRODUCED

2005

USE OF RELAXATION INSTEAD OF BACKWASH INTRODUCED

2008

B40N MEMBRANE MODULE LAUNCHED

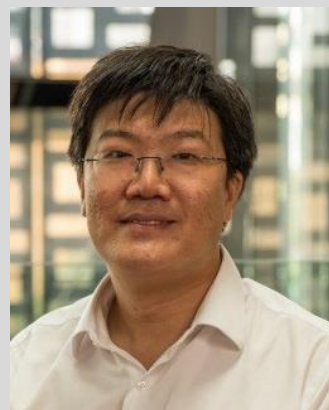
2009

B40N MODULE PDT CAPABLE

THANK YOU



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