



# INTERNATIONAL CONFERENCE ON EMERGING WATER DESALINATION TECHNOLOGIES IN MUNICIPAL AND INDUSTRIAL APPLICATIONS

*Held in Conjunction with the IDA World Congress 2015*

**August 28-29, 2015**

**San Diego Convention Center**  
111 W Harbor Drive  
San Diego, California 92101 USA

[www.desaltech2015.com](http://www.desaltech2015.com)

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## First Announcement

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### Co-Organizers

- National Water Research Institute (NWRI)
- National Centre of Excellence in Desalination Australia (NCEDA)
- KAUST Water Desalination and Reuse Center (WDRC)

### Conference Focus

The **DesalTech 2015 Conference** will focus specifically on research in emerging water desalination technologies for municipal and industrial applications.

Reverse osmosis (RO) has become the conventional seawater and brackish water desalination technology in both municipal and industrial water applications. However, RO is an energy-intensive process with a large carbon footprint. In response, global research and development is focusing on several emerging technologies that are less energy-intensive and offer further opportunities for integration with renewable energy. These processes include, among others, forward osmosis (FO), membrane distillation (MD), adsorption desalination (AD), and capacitive deionization (CDI).



The DesalTech 2015 conference will be a co-located event held in conjunction with the IDA World Congress 2015, to take place Aug. 30-Sept. 4, 2015 at the San Diego Convention Center. Visit the IDA World Congress 2015 website to learn more: <http://wc.idadesal.org/>.

Although these technologies may not replace RO, they provide important niche applications, as well as potential hybrids in combination with other processes. In addition to water production, there is a growing interest in exploiting desalination brines for (salinity gradient) energy production through processes like pressure retarded osmosis (PRO) and reverse electrodialysis (RED). While the municipal market for desalination is better understood, market forces are at work for desalination applications in industry, most notably oil and gas extraction/production and mining.

### Conference Format

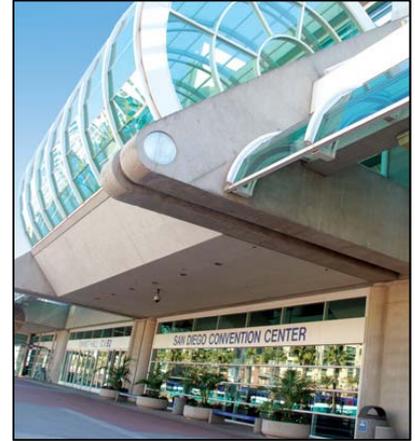
The two-day **DesalTech 2015 Conference** will be organized to focus on research in emerging technologies.

#### Day 1 – Processes and Municipal Applications

- Morning plenary session with invited speakers
- Parallel sessions on desalination trends in municipal applications

#### Day 2 – Hybrids and Industrial Applications

- Morning plenary session with invited speakers
- Parallel sessions on desalination trends in industrial applications



The parallel sessions will feature an invited keynote speaker followed by speakers selected from abstract submissions. Also planned are a poster session and a conference reception/dinner.

### Registration

One-day and two-day registration rates will be available. Details will follow in a second announcement.

### Conference Lodging

The **DesalTech2015 Conference** and IDA World Congress 2015 will share the same hotels for lodging, which include:

- San Diego Marriott Marquis & Marina (headquarters hotel)
- Marriott Residence Inn San Diego
- Manchester Grand Hyatt San Diego

Detail on lodging availability will be provided in a second announcement.



*Solar-powered adsorption desalination and cooling (ADC) pilot. Photo courtesy of Prof Ng Kim Choon, KAUST.*

## Call for Abstracts

Abstracts will be solicited on the following topics in regards to *seawater or brackish water desalination in both municipal and industrial applications*:



### Main Topics

- Adsorption desalination
- Capacitive deionization
- Forward osmosis
- Membrane distillation
- Pressure retarded osmosis
- Reverse electrodialysis
- Other innovative approaches (or hybrids)

### Subtopics

- Energetics
- Life cycle analysis
- Material science
- Modeling
- Process engineering
- Renewable energy
- Scale-up/piloting

Abstracts must be submitted with the “Abstract Submittal Form” available at [www.desaltech2015.com](http://www.desaltech2015.com). Please submit abstracts between **November 1, 2014, and January 31, 2015**, to Ms. Suzanne Faubl of NWRI at [abstracts@desaltech2015.com](mailto:abstracts@desaltech2015.com).

Given that the **DesalTech2015 Conference** will be co-located with the IDA World Congress 2015, some participants may attend both events; therefore, there is an opportunity for potential presenters to submit abstracts that complement the topics covered at each event.

### Conference Program Committee

- Jeff Mosher, Executive Director, NWRI (USA)
- David Furukawa, Scientific Director, NCEDA (Australia)
- Gary Amy, Emeritus Professor, WDRC (Saudi Arabia)

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### Co-Located with the IDA World Congress 2015

The **DesalTech2015 Conference** is scheduled for the **Friday and Saturday (Aug. 28-29)** before the IDA World Congress 2015, to be held by the International Desalination Association (IDA) on August 30-September 4, 2015, at the San Diego Convention Center in San Diego, California.



IDA is the world’s leading resource for information and professional development for the global desalination industry. Since its first Congress in 1987, the IDA World Congress has been recognized as the premier global event in the desalination and water reuse industry.

**DesalTech2015 Conference** attendees are encouraged to consider attending the IDA World Congress 2015 as it is a unique opportunity combining research and development in desalination and water reuse technology. Discounted prices will be offered for attending both events. More information about the IDA World Congress 2015 can be found at <http://wc.idadesal.org/>.

## About the Co-Organizers



Since 1991, the **National Water Research Institute (NWRI)** — a science-oriented 501c3 nonprofit — has sponsored projects and programs to improve water quality, protect public health and the environment, and create safe, new sources of water. NWRI specializes in working with researchers across the country with the best available facilities, such as laboratories at universities and water agencies, and are guided by a Board of Directors made up of representatives of water and wastewater agencies in California. NWRI hosts the annual Athalie Richardson Irvine Clarke Prize, one of only a dozen prizes that awards scholarly and practical achievements in water research. To learn more about NWRI, please visit [www.nwri-usa.org](http://www.nwri-usa.org).

The **Water Desalination and Reuse Center (WDRC)** at King Abdullah University of Science and Technology (KAUST) is a globally-active research center focusing on (i) emerging technologies for low-energy and renewable energy-driven desalination processes and hybrids and (ii) sustainable (energy-neutral) wastewater treatment processes for safe reuse. WDRC research is performed along the entire industrial value chain, including process scale-up, with technology commercialization as a driver. Process-related research is underpinned by material science research in developing improved membranes as well as nano-adsorbents and -catalysts. To learn more about WDRC, please visit <http://wdrc.kaust.edu.sa>.



The **National Centre of Excellence in Desalination Australia (NCEDA)** was established in 2010 with funding from the Australian Government's *Water for the Future* initiative to lead research and build national capacity and capabilities in desalination. NCEDA is highly regarded as a global leader in desalination research, with particular strength and relevance in inland water desalination and salt management, as well as small-scale plants. Specifically, NCEDA strives to reduce desalination costs, decrease energy consumption, increase the feasibility of using renewable energy sources, and develop innovative technologies to more efficiently separate salt from water. To learn more about NCEDA, please visit <http://desalination.edu.au/>.



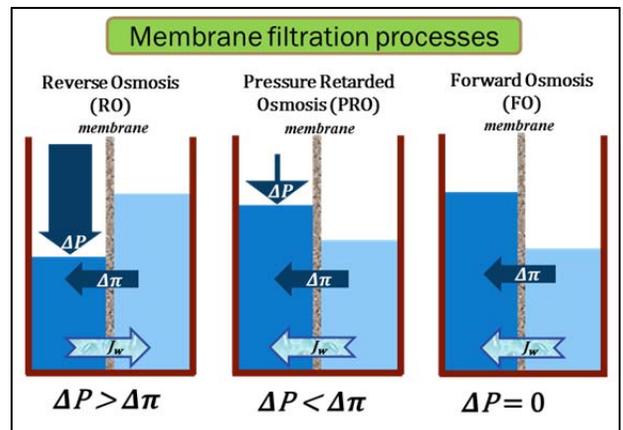
## More Information

### Website:

[www.desaltech2015.com](http://www.desaltech2015.com)

### Contact:

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Schematics of the forward osmosis process courtesy of Zhenyu Li, KAUST.