



# CONNECTIONS

May / June 2016

Connecting People and Ideas to Water Solutions

## Inside

Message from Membership Committee Chair .....	2
IDA Member Benefits.....	3
Projects and Practices: Coober Pedy: Outback Town Has Long Desal History .....	5
IDA Water Reuse and Recycling Conference News.....	7
Singapore International Water Week Highlights .....	9
Other IDA News.....	11
Calendar of Events.....	12



## Your Point of Connection to People, Perspectives and New Ideas in Desalination and Water Reuse

It's time to renew your IDA membership, as the new membership year starts on July 1.

While membership fees have been increased slightly for the 2016-2017 membership year (just over \$1 per month for individual members), only IDA members enjoy generous discounts on registration for IDA events and Academy courses as well as complimentary subscriptions to D&WR Magazine, the IDA Desalination Yearbook and IDA Connections. And only IDA members have free access to proceedings from our World Congresses and technical conferences – the industry's leading library of knowledge and information. You can also save 10% by renewing your membership in IDA for two years. Fees for students, libraries and LDC memberships have not increased.

As the point of connection for the global desalination and water reuse industry, IDA brings together people, knowledge and new ideas that are shaping the planet's water future. Read what some of our members have to say:

"IDA is an organization committed to discussing and endorsing the future of our industry and the technologies that serve it. Being a member has introduced me to an extraordinary space to exchange, network and support our common goal of promoting desalination and water reuse as a potential solution to our world's water scarcity problems."

—Blanca Salgado, Technical Service and Development Specialist, Dow Water & Process Solutions

**"IDA membership is essential for water stakeholders from all parts of the globe, including end users, utilities, researchers, consultants, members of academia, manufacturers and supplies."**

[continues on page 6](#)



# message

from membership committee chair



Johnny Obeid

Greetings! As we have all noticed, the interest in water industry is growing faster and faster due to more stringent water and wastewater treatment laws and regulations, rapid population growth and shortages in water supply. Today the world is in a constant search to find sustainable water and energy solutions to meet the needs of the current and future generations. This is why the IDA community has opened doors for many young leaders and established professionals to enter the desalination and water reuse industry, build their know-how, and gain valuable knowledge in order to seek opportunities and make a change.

IDA is committed to always stretching its geographical reach so that all professionals interested in desalination and water reuse are given an opportunity to be part of the global community in whatever country or region they are located.

The IDA has always been an excellent leading platform in the desalination and water reuse industry providing information and exchanging expertise through industry-leading publications, education programs and training as well as organized events. The IDA connects people and ideas to water solutions; the information shared about desalination, water reuse and water technologies and solutions, professional opinions and expertise are an important added-value in developing one's career.

IDA is the starting point as many of you interested in this industry try to gather information about scheduled conferences of major international professional associations such as the International Desalination Association, the WaterReuse Association and AWWA, or as you aim to read about formal annual conferences and gather the fruits of much research and dialogue. IDA is an efficient, dynamic tool that helps members stay tuned for any events or new information that circulates in the desalination and water reuse industry. IDA memberships

facilitate access to robust information. IDA also offers discounts and easy access for many workshops and events around the world (seminars, workshops, conferences, congresses etc.).

IDA's multiple purpose programs attract members from different age categories and backgrounds who are interested in developing skills in the desalination and water reuse industry. As young members, you would be interested in the Young Leaders Program, which inspires tomorrow's water leaders today by promoting opportunities, supporting career advancement and providing a forum for communication and the exchange of ideas. Also, the IDA Academy can bring you focused learning experiences from the global leaders in desalination education in terms of productive dialogues contributing to ongoing improvements and technological breakthroughs that have shaped our industry and will continue to do so. Other professional advanced tools are also at your disposal to support your career; such as the "DesalData" a powerful tool done in association with GWI that helps you track the progress of a project, find new business opportunities, keep an eye on your competitors and make predictions based on current market conditions.

Having said that, as young leaders, professionals or knowledge-lovers, the IDA community will guarantee for you as members multiple benefits to quench your thirst for knowledge and development in the world of desalination and water reuse.

We look forward to seeing more of you take part in our IDA family to grow our industry and foster the next generation of leaders.

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Johnny Obeid is an IDA Director and Chairman of the IDA Membership Committee. Vice President – Middle East at Veolia Water Solutions & Technologies / SIDEM, the water subsidiary of Veolia Environment, he can be reached at [johnny.obeid@veolia.com](mailto:johnny.obeid@veolia.com)

# IDA Membership Overview

## Member Benefits

The IDA membership year runs from July 1 – June 30 and is not pro-rated. Following is a summary of membership categories and benefits.

**Corporate Membership:** IDA offers two categories of Corporate Membership, one for corporations or utilities, and one for smaller companies with 10 employees or less, universities or NGOs.

**Individual Membership:** IDA offers two types of Individual Memberships, one for professionals covered under a corporate membership, and one for those who join IDA on their own.

**Full-time students and individuals from least developed countries (LDCs).**

**Non-profit libraries (Class III-B)**

Please see the IDA website for details.

### Membership Benefits

	Corporate	Individuals	Students Individuals from LDCs	Non-Profit Libraries
Reduced registration fees at the IDA World Congress, conferences, seminars and workshops	*	✓	✓	✓
Reduced fees on stands at IDA Exhibitions	✓			
Ability to reserve premium stands at IDA World Congress	✓			
Reduced membership fee for additional employees (Class II-D only)	✓			
Complimentary conference proceedings on IDA website (full technical paper)	*	✓	✓	✓
Reduced fees for online International Reverse Osmosis Certification (IROC)	*	✓	✓	
Complimentary subscription to Desalination & Water Reuse (D&WR), IDA's quarterly magazine	*	✓	✓	✓
Complimentary online Membership Directory	*	✓	✓	✓
200-word company description published in the online Membership Directory	✓			
Complimentary subscription to IDA Connections, IDA's online member newsletter	*	✓	✓	✓
Complimentary hard copy and online access of the IDA Desalination Yearbook	*	✓	✓	✓
Complimentary copy of Desalination at a Glance (the latest edition of IDA's ABCs of Desalting)	*	✓	✓	✓
Eligibility to apply for the IDA Channabasappa Scholarship	*	✓	✓	
Eligibility to apply for the IDA Fellowship Program	*	✓	✓	
Eligibility for membership in the IDA Young Leaders Program	*	✓	✓	
Eligibility to participate in IDA Mentor Program	*	✓	✓	

\* Applies to individuals who are members under their employer's corporate membership.

[continues on page 4](#)

## 2017 Membership Rates: 2016 – 2017 Membership Rates

Description (Eligibility)	Category	Type	Annual Dues (USD)
Corporations/Utilities - 1 YR	Class I	A	\$1175
Corporate/Utilities - 2 YR			\$2115
Small Companies (10 employees or less)	Class I	B	\$785
1 YR			\$1413
2 YR			
Universities / NGOs - 1YR	Class I	B	\$785
Universities / NGOs - 2YR			\$1413
Individuals who are not affiliated with Class IA or IB corporate members	Class II	A	\$135
1YR			\$243
2YR			
Individuals who are employees of Class IA or Class IB corporate members	Class II	D	\$85
Full-time Students	Class III	A	\$25
Non-profit Libraries	Class III	B	\$25
Individuals from Least Developed Countries (LDCs)	Class III	C	\$25

## IDA Young Leaders Program – The Point of Connection for the Next Generation of Water Leaders

### By Victor Sim

The International Desalination Association is the point of connection for the global desalination and water reuse industry – the people, ideas and information that shape the world's water future. IDA encourages advancements in desalination and separation technologies; facilitates knowledge-sharing, engagement and communication through industry events, publications and other programs; and supports education in the field of desalination and water sciences. It serves more than 6,600 core and affiliate members in 60 countries, from scientists to end-users, engineers, consultants, financiers, researchers and students representing governments, corporations and academia. IDA is associated with the United Nations as part of a growing international network of non-governmental organizations (NGOs).

At the heart of IDA is its Young Leaders Program (YLP), which specifically caters to young IDA member 35 years of age or under. IDA's YLP allows emerging desalination leaders to connect, advance their careers, and promote interest in

desalination around the world. The goals of this exciting initiative are to help promote opportunities in the industry, support career advancement, and provide a forum for communication and the exchange of ideas among young professionals and the industry at large.

Enjoying the full benefits of IDA membership, IDA's YLP members have access to various publications that track the global desalination industry and also get exclusive access to the mentorship program that offers the emerging professional an invaluable opportunity to draw upon the technical and business knowledge and experience of his or her esteemed mentor. In turn, it presents the mentor with an opportunity to foster the next generation of leaders while further strengthening the desalination and water reuse industry by passing along their knowledge.

If you are interested in joining the program, which is free for eligible IDA members, please direct your inquiries to [info@idaylp.org](mailto:info@idaylp.org).

Victor Sim can be reached at [Victor.Sim@ch2m.com](mailto:Victor.Sim@ch2m.com)

# Coober Pedy: Outback Town Has Long Desal History



**By Tom Pankratz**

*Note: This story was first published in the April 4, 2016 issue of the Water Desalination Report. IDA thanks WDR Editor Tom Pankratz, who wrote this story, for granting IDA permission to run it in this issue of IDA Connections.*

For most of its 100-year history, the South Australian town of Coober Pedy has been best known as the “opal capital of the world”. The town’s name itself comes from the Aboriginal term kupa-piti, which means “white man’s hole,” after the many open opal mines. However, to the water treatment community, the town is also known for its desal history.

While the Western Australian city of Coolgardie can lay claim to having the country’s first potable water desal system—a 454 m<sup>3</sup>/d (120,000 GPD) wood-fired evaporator/condenser installed in 1895 (see WDR volume 44, number 26)—Coober Pedy is home to the country’s first RO desalination plant. Located 850 miles north of Adelaide in the harsh Outback, the town has always had a water problem, with early miners allocated only 60L (15 gallons) per week. And its stark, dry landscape is so dramatic that it was used as a location for filming the Mad Max movies.

Prior to 1921, the area’s infrequent rainfall was collected in natural water holes. In 1922, the government built a 2,000m<sup>3</sup> (528,000 gallon) underground storage tank for rainfall collection that took four years to fill.

To address the unreliable water supply, the Commonwealth Scientific and Industrial Research Organization (CSIRO) constructed a 7,000m<sup>2</sup> (75,000 ft<sup>2</sup>), glass-lined solar still in 1967. Using brackish groundwater, the still was designed to produce 17 m<sup>3</sup>/d (4,500 GPD) of potable water at a total water cost of \$0.53-\$1.06/m<sup>3</sup> (\$2.00-\$4.01/kgal) amortized over a 20-year expected life. However, Veolia’s Andrew Layson told WDR that people familiar with the installation reported the plant didn’t work well and was plagued with scaling and glass cleaning/breakage problems until a willy-willy (an Australian cyclone) eventually destroyed it.

According to veteran desalter Bob Masters, formerly with Osmoflo, a small RO system employing Havens’ tubular membranes was commissioned in 1971. He said that the membranes were replaced on almost a weekly

basis, and were eventually replaced with more reliable DuPont hollow fiber membranes, that could be cleaned more effectively, adding, “During the 1970s, while working for Permutit, I recommended that they consider a new RO unit with Dow’s spiral-wound elements.”



Solar Still following a willy-willy, circa 1970



1985 RO Unit

In 1985, NEI John Thompson Australia supplied Coober Pedy’s first permanent RO system. It was located 24km (15 miles) north of town. The 850 m<sup>3</sup>/d (0.225 MGD) BWRO plant was designed by Andrew Jones and commissioned by Andrew Layson. It met most of the town’s water needs using feedwater from 67m (220 ft) deep artesian wells with a TDS that is variously reported at 4,000 to 8,000 mg/L, and a dissolved iron concentration of 3-4 mg/L.

Pretreatment consists of greensand filtration and the addition of sodium metabisulfite prior to cartridge filtration. The plant is operated at 75 percent recovery and permeate is chlorinated prior to distribution. The RO concentrate is discharged into a nearby creek dubbed “Concentrate Creek” because it has no other flow, and runs out into the sandy desert.

In 2001, Veolia supplied a second BWRO unit with a production capacity of 600 m<sup>3</sup>/d (0.16 MGD). Both units are understood to still be in operation, and able to meet the needs of the town’s 2,000 permanent residents and a peak tourist season population that rises to 3,500.

[continues on page 6](#)



# Coober Pedy: Outback Town Has Long Desal History

*continued from page 5*

Coober Pedy is not connected to the Australian electricity grid and obtains all of its power from diesel generators and a wind turbine. Town residents may purchase their first 50 m<sup>3</sup> (13,210 gallons) of water each month at a cost of A\$3.92/m<sup>3</sup> (\$3.01/m<sup>3</sup>; \$11.40/kgal). Higher rates are charged for increased consumption.

A 2013 tourist guidebook notes that a coin-operated water dispenser is available for travelers, which provides 30L of potable water for A\$0.20 (\$0.02/gallon).



Coin Operated  
Desalted Water Dispenser

**WDR Editor's note:** In preparing this story, WDR had to piece together details from many different sources, which often contained conflicting information. We have attempted to corroborate the information whenever possible. A 2009 paper by researchers at the University of Edinburgh and Heriot-Watt University was helpful, as was information from NSW, CSIRO, personal interviews and several 1960s-era issues of WDR.

There is still one mystery to be solved. The photograph on the left was found on the Flickr website with an SA Water logo and identified as a Coober Pedy desalination installation, August 1977, from Kruse Water Supply vapor compression unit. Can any readers identify it and advise who purchased the unit and for how long was it in service?

## Your Point of Connection to People, Perspectives and New Ideas in Desalination and Water Reuse

*continued from page 1*

“One of the key benefits of IDA membership is that it enables members to link up with many business and research leaders worldwide. I have found this international network to be of immense value to my work, broadening my horizons and keeping me updated of the latest advancements in the sector.”

—**Puah Aik Num, Chief Engineer, Water Supply (Plants) Department, PUB Singapore**

“As the world's supply of clean water diminishes, desalination and water reuse are becoming essential resources. The IDA is the world's leading resource for information and action for the future of fresh water. As an IDA member, I have access to cutting-edge work in subject areas ranging from brackish and seawater desalination to industrial and domestic water reuse; from environmental management and environmental challenges to governance, finance and project delivery; and from lessons learned in long running plants to the latest breakthroughs

and emerging technologies. IDA membership is essential for water stakeholders from all parts of the globe, including end users, utilities, researchers, consultants, members of academia, manufacturers and suppliers.”

—**Richard L. Stover, PhD,  
Executive Vice President, Desalitech**

“IDA Membership has helped me and my research group connect with professionals in the industry and researchers worldwide. IDA conferences, in particular, have been great venues for meeting people and discussing the latest developments and trends, and the current best practices and state-of-the-art.”

—**Professor John H. Lienhard,  
Massachusetts Institute of Technology**

You can renew your membership online by logging in at [www.tinyurl.com/hjk8aur](http://www.tinyurl.com/hjk8aur). Please contact [membership@idadesal.org](mailto:membership@idadesal.org) with any questions about your membership.



## Early Bird Registration for IDA Water Reuse and Recycling Conference Available Through July 30

Special early bird registration is available for the IDA Water Reuse and Recycling Conference through July 30. In addition, IDA members are eligible for an additional discount as part of membership benefits package. IDA Affiliates and IWA members are also eligible for discounts.

Visit [www.idadesal.org/water-reuse-conference/registration](http://www.idadesal.org/water-reuse-conference/registration) for details.

## Online Booking for Accommodations Is Open

Reserve your room now for IDA's International Conference on Water Reuse and Recycling!

The Hyatt Regency Nice Palais de la Méditerranée is the official conference hotel. IDA has reserved a block of rooms offering a special conference rate at this charming 5-star hotel, ideally located on the prestigious Promenade des Anglais in the heart of Nice. Towering over the Bay of Angels and the turquoise waters of the Mediterranean Sea, this striking luxury hotel enjoys seafront views of Nice. It is also located within a short walk of the city's key attractions and is conveniently located nearby to the Nice airport.

To get the special IDA discounted room rate, reservations for the Hyatt Regency must be made online through the hotel website ([tinyurl.com/h84988d](http://tinyurl.com/h84988d)). Please enter the

Group Code G-IDA1 under the Special Rate category after entering your arrival and departure dates in order to obtain the discounted room rate (Single: 265 Euros, Double: 285 Euros).

Room rate includes breakfast, VAT and service charges. Other hotels within walking distance to the conference venue include Le Meridien Nice ([www.lemeridiennice.com](http://www.lemeridiennice.com)) and Radisson Blu Hotel ([www.radissonblu.com/en/hotel-nice](http://www.radissonblu.com/en/hotel-nice))

## Advance Program for IDA Water Reuse and Recycling Conference Available Online in June

The advance program for the IDA Water Reuse and Recycling Conference September 25-27, 2016 in Nice, France will be available at the end of June.

Visit [www.idadesal.org/water-reuse](http://www.idadesal.org/water-reuse) to view or download a copy and get the latest news about the conference.

## Review Process Complete for Abstracts Submitted for IDA International Water Reuse Conference Technical Program

IDA received 101 submissions for the conference Technical Program, and 40 have been accepted for presentation. In addition, a number of abstracts were selected as alternates in the event that a Podium Session speaker cannot make his/her presentation.

*[continues on page 8](#)*

# IDA Water Reuse And Recycling Conference News

*continued from page 7*

The following categories and panel discussions promise an informative and engaging program:

- Cutting Edge Technologies for Water Reuse
- Direct and Indirect Potable Reuse (DPR, IPR)
- Non-Potable and Agricultural Water Reuse: Challenges and Successes
- Industrial Water Reuse and Recycling
- Water Quality Monitoring and Control
- Technologies for Joint Desalination and Water Reuse

Authors have been notified of their status by email.

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Please contact IDA at [conferences@idadesal.org](mailto:conferences@idadesal.org) with any questions.

## Join Our Growing Roster of Sponsors for the IDA International Water Reuse and Recycling Conference

There is still time to join our growing roster of sponsors for the IDA Water Reuse and Recycling Conference. We invite you to showcase your organization as an industry leader and take advantage of the outstanding networking and business-building advantages that sponsorship offers. This support provides an exceptional opportunity to promote your brand and increase visibility among leaders in the global water reuse and desalination industry.

Conference sponsorships are available as well as focused sponsorships for the Welcome Reception, Panel Sessions and Technical Program Sessions. All sponsors have the opportunity to insert one item of their choice in the delegate bag (certain guidelines apply).

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If you would like more information, visit [www.idadesal.org/water-reuse-conference](http://www.idadesal.org/water-reuse-conference) or email Karen Zilinek at [sponsorships@idadesal.org](mailto:sponsorships@idadesal.org).

## We would like to thank the following companies for their sponsorship:

Principal Sponsor:



Gold Sponsor:



Silver Sponsor:



Technical Session Sponsor:



Technical Session Sponsor:



Technical Session Sponsor:



Technical Session Sponsor:



Supporting Affiliate:



Strategic Partner:



Supporter:





# Singapore International Water Week Highlights

## IDA Is Once Again Strategic Partner for Singapore International Water Week Exhibitor and Will Co-Lead Business Forum and Academy

IDA continues its prominent role as a Strategic Partner in the Singapore International Water Week (SIWW), an event in which IDA has been actively engaged since its inception. Co-leader of the Business Forum, IDA will also exhibit at the event, and will present a two-day Master Class co-organized by the IDA Academy and Singapore Water Academy.

The 7th SIWW will be held in conjunction with the 5th World Cities Summit and the 3rd CleanEnviro Summit Singapore, from July 10-14, 2016 at the Sands Expo and Convention Centre, Marina Bay Sands in Singapore.

"IDA is pleased to continue its tradition of supporting Singapore International Water Week. We are proud to participate in this global platform and look forward to playing our part in promoting leading-edge water solutions," said Patricia Burke, IDA Secretary General.

This year, IDA will exhibit at Booth B2-W14. IDA will also co-organize the Desalination and Water Reuse Business Forum with PUB, Singapore's National Water Agency, to be held on July 13. In addition, the IDA Academy and Singapore Water Academy have co-organized the IDA-SgWA Desalination Masterclass that will take place on July 7 and 8 at PUB WaterHub in Singapore in conjunction with SIWW.

The Desalination and Water Reuse Business Forum, "Seizing the Future of Water: Forging Global Inroads and Opportunities," takes place on Wednesday, July 13 from 2:00-4:45 pm at Epo Hall D, Basement 2 in the Sands Expo and Convention Centre. It will provide a platform for utilities and technology leaders to gather and share interesting business opportunities and latest technology

trends in the desalination and water reuse markets.

The first session of the Business Forum will delve into the upcoming desalination and water reuse project opportunities. Major announcements such as Jordan's US\$10 billion Red Sea-Dead Sea pipeline and desalination project, and Saline Water Conversion Company's desalination strategies and investment opportunities for new desalination plants and rehabilitation of existing plants will be shared at the session. Other projects such as Hong Kong's Tseung Kwan O desalination plant and America's water reuse initiatives will also be highlighted at the Forum.

The second session of the Forum will showcase successful innovative desalination and water reuse technologies. Technology leaders will shed light on the next generation of desalination and reuse technologies such as low energy desalination, as well as the challenges and solutions for desalination pilot plant powered by renewable energy.

IDA leaders Dr. Emilio Gabbrielli, IDA President; Leon Awerebuch, IDA Director and Technical Program Committee Chairperson; Fady Juez, IDA Director; and Miguel Angel Sanz, IDA Director, will be part of the Business Forum along with other industry leaders and officials from around the world.

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**SIWW is a leading global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic program of the Singapore Government to grow the water industry and develop water technologies. For more information about SIWW, visit [www.siww.com.sg](http://www.siww.com.sg)**

# Singapore International Water Week Highlights

continued from page 9

## IDA Academy Co-Organizes Two-Day Master Class with Singapore Water Academy in Conjunction with Singapore International Water Week

The IDA Academy and Singapore Water Academy have co-organized a two-day IDA-SgWA Desalination Masterclass to be held in conjunction with the Singapore International Water Week. The program takes place on July 7 and 8 at PUB WaterHub in Singapore.

Day One kicks off with *Design of Coastal Intakes and Brine Outfalls for Seawater Reverse Osmosis (SWRO) Desalination Plants* led by Professor Adrian Law, Associate Professor, School of Civil and Environmental Engineering, and Director, Environmental Process Modelling Centre (EPMC), Nanyang Environment and Water Resources Institute (NEWRI), Nanyang Technological University, Singapore. The course will look at why the design of coastal intakes needs to take into account the environmental and maintenance considerations, while the design of brine outfalls needs to ensure a good mixing of the brine discharge with the ambient water throughout the flow range.

The afternoon course titled *Strategies to Control Organic and Biological Fouling of Reverse Osmosis (RO)* will be led by Professor Harvey Winters, Professor Emeritus, Fairleigh Dickinson University, USA. This course will provide students with a working knowledge of the causes of organic and microbial fouling of reverse osmosis (RO) membranes used in wastewater reclamation and seawater desalination (SWRO).

Day Two features *Operation and Maintenance of Seawater Reverse Osmosis Desalination Plants* taught by Nikolay Voutchkov, PE, BCEE, Water Globe Consultants, LLC, USA. This training program focuses on practical understanding of key desalination plant treatment processes including plant process and equipment operation, maintenance, monitoring, troubleshooting and optimization.

The mission of the IDA Academy is to provide the highest level of training, education and instruction to individuals, utilities, companies, institutions, universities and other organizations interested in desalination in all its aspects.

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To learn more or to register for the Singapore courses, visit [www.idadesal.org/academy/academy-events](http://www.idadesal.org/academy/academy-events) If you have specific questions, please contact IDA at [academy@idadesal.org](mailto:academy@idadesal.org)



## IDA Constitutional Review Update



**By Carlos Cosin**

During the last IDA World Congress in San Diego, the Constitution and Bylaws (C&B) Committee was entrusted with the objective of reviewing the Association's Constitution and Bylaws and, as needed, make motions to amend the Constitution or Bylaws following the procedures outlined in the Constitution.

The need of reviewing the Constitution was clearly expressed by the Board of Directors, and an Ad Hoc Informal Advisory Group (AG) was set to conduct a wide-ranging review of the Constitution in September 2015. The AG was Co-chaired by Lisa Henthorne and Randy Truby. The AG launched a survey to the Directors as part of their analysis to review the Constitution. In their January meeting, the Operations Committee discussed, revised and expanded on the AG suggestions. The following inputs have been received from the AG, Operations Committee, Constitution and Bylaws Committee and individual Board members.

The C&B Committee has been working in the last months to be able to make a first proposal to the Board members in Abu Dhabi, where last Board Meeting was held in April.

Some of the most important changes approved are driven to getting a more transparent body of the IDA as per four main areas: Governance, Voting/Balloting, Finance – those in order to get a fair and easier access to the Board, Officers and Committees, and to ensure a clear and audited financial situation – and Rebranding, this latest in order to implement the approved Strategic Plan.

Beyond these changes, a general review of the Constitution text is required to update any outdated text, improve wording, etc. A general review of the Bylaws to ensure consistency with the Constitution should also be done.

The process the Committee is recommending is that BOD-approved changes are sent to the IDA attorney to make any changes in wording necessary for amendments and to verify that these changes do not contradict other constitutional clauses or Roberts Rules of Order.

The Board was sent a final report to be approved via an electronic vote majority. A ballot will be organized while the Constitution and Bylaw Committee prepares a cover note explaining the need for the amendments and requesting their approval.

## IDA Is Partner Organization for 9th International Desalination Workshop

On November 13-15, 2016, Masdar Institute will, with support from IDA as a Partner Organization and in collaboration with several entities, co-organize the 9th International Desalination Workshop, to be held in the Yas Island, Abu Dhabi. With its theme "Sustainable Desalination," the event is envisioned to be an international desalination conference with a strong regional flavor, highlighting the research and development activities from both the MENA-GCC region, South Korea and the rest of the world.

IDA was also a Partner Organization for the 8th International Desalination Workshop, which was held in November 2015 in Jeju, South Korea under the auspices of IDA's affiliate, the Korea Desalination Plant Association (KDPA).

The Workshop Scientific Program Committee is preparing to put together a program that addresses the cutting-edge research issues in desalination science and techniques. A series of state-of-the-art keynote and invited presentations will be delivered by internationally renowned experts on desalination and related technologies, including conventional desalination technologies of reverse osmosis, as well as the advanced technologies of membrane distillation, forward osmosis and pressure-retarded osmosis.

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For more information, please visit [www.desalworkshop.org](http://www.desalworkshop.org)

# Calendar of Events

## July 10-14, 2016

Singapore International Water Week  
Singapore  
[www.siwv.com.sg](http://www.siwv.com.sg)

## September 25-27, 2016

IDA International Conference on Water Reuse and Recycling: Turning Vision into Reality  
Nice, France  
[www.idadesal.org/water-reuse-conference](http://www.idadesal.org/water-reuse-conference)

## October 4-6, 2016

WETEX 2016  
Dubai, UAE  
[www.wetex.ae/about/ChairmanMessage](http://www.wetex.ae/about/ChairmanMessage)

## October 5-7, 2016

DESAL 2016  
5th Latin American Congress on Desalination and Water Reuse  
Santiago, Chile  
[www.tinyurl.com/gm7a5ep](http://www.tinyurl.com/gm7a5ep)

## October 9-14, 2016

IWA World Water Congress  
Brisbane, Queensland, Australia  
[www.iwa-network.org/event/world-water-congress-exhibition-2016](http://www.iwa-network.org/event/world-water-congress-exhibition-2016)

## October 19-21, 2016

XI International Congress Desalination and Water Reuse, AEDyR  
Valencia, Spain  
[www.aedyr.com](http://www.aedyr.com)

## November 6-9, 2016

Membranes in Drinking and Industrial Water Production  
Leeuwarden, The Netherlands  
[www.edsoc.com](http://www.edsoc.com)

## November 28-30, 2016

International 9th Desalination Workshop  
Yas Island, Abu Dhabi, UAE  
[www.desalworkshop.org/main](http://www.desalworkshop.org/main)

## December 7-8, 2016

IDA Energy & Environment Conference 2016  
Hilton Miami Downtown  
Miami, Florida USA

## February 13-17, 2017

AMTA/AWWA 2017 Membrane Technology Conference & Expo  
Long Beach, CA, USA  
[www.tinyurl.com/hue66ec](http://www.tinyurl.com/hue66ec)

## October 16-20, 2017

IDA 2017 World Congress  
Sao Paulo, Brazil  
[www.idadesal.org/2017-ida-world-congress](http://www.idadesal.org/2017-ida-world-congress)

## October 31 – November 3, 2017

Aquatech Amsterdam 2017  
Amsterdam, The Netherlands  
[www.aquatechtrade.com/amsterdam](http://www.aquatechtrade.com/amsterdam)

## May 6-10, 2018

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