



March / April 2015

## Inside

2017 IDA World Congress  
in São Paulo

Message from the President:  
Embracing Change

Viewpoint: Exploring Latin  
America's Potential

Remembering Lee Kuan Yew

Analyst Corner: Broadening  
Demand for Water Solutions  
Heightens Competition

World Congress Awards Program

Second Announcement and Online  
Registration Available in May

2014-15 IDA Fellowship Program  
Award to Dr. Raed Bashitialshaaer

IDA Director Elections:  
Nomination Period Now Open

YLP Spotlight: Events Held in USA  
and Brazil

Nomination Period Now Open  
for YLP Committee

Lance Johnson Joins IDA Mentor  
Program

New Horizons for Desalination  
Conference Set for May 17-19

IDA Desalination Academy to  
Present Seminar in Singapore

Calendar of Events

## IDA Awards 2017 World Congress to São Paulo, Brazil



The International Desalination Association has selected São Paulo, Brazil as the site for its 2017 World Congress on Desalination and Water Reuse. The Congress will take place during the second half of 2017. The specific dates and details about the venue are currently being finalized.

The announcement follows the conclusion of the highly successful "Water Reuse and Desalination for Latin America Development" conference, IDA's first technical conference in Latin America. Held in Rio de Janeiro in March, the program was attended by more than 200 delegates from Latin America and around the world.

"The award was made after a review by IDA's Site Selection Committee of three final candidates – São Paulo, Brazil; Kuwait City, Kuwait; and Busan, South Korea – and subsequent vote by the IDA Board. Latin America is widely recognized as an important emerging market in desalination and water reuse. We look forward to a very successful event in 2017," said Patricia A. Burke, Secretary General of the International Desalination Association.

Held every two years, the IDA World Congress is widely regarded as the premier event for the global desalination and water reuse community. It is attended by delegates from the public and private sector

[continues on page 10](#)



# message

from the President

Dr. Abdullah Al-Alshaikh



## Embracing Change

It has been said that the only thing that is constant is change itself. I am happy to acknowledge that as an organization, IDA is encouraging and embracing change. We are looking to the future, and we like what we see.

Ensuring that IDA remains a dynamic organization that is at the forefront of promoting technology and water industry concerns, the past year has been a breath of fresh air to the organization. In many ways, we have set out to reposition and reaffirm IDA.

We have raised the profile of water reuse within the organization and are planning our first reuse conference in Nice, September 26-27, 2016. Our R&D workshops have rapidly grown in size and importance, and have become an industry mainstay as an invaluable exchange for collaboration, information and contacts. We have reviewed our organizational strategy and brought it forward. We have strengthened rules and guidelines to insist on broader active participation within the IDA board to leverage our diverse membership and enable the next generation of industry leaders. And finally, we are wrapping all of this in a fresh rebranding of IDA, to be introduced shortly, that represents our repositioning and future aspirations.

Based on these changes, we expect our membership to grow and to be more active than ever. Our expanding outreach efforts will succeed in making us a truly global organization. In that spirit, we are pleased to announce that in 2017, South America

and Brazil will, for the first time, host the World Congress in São Paulo, representing one of the most important markets for our industry.

Since its beginning, IDA has inspired change. We have prided ourselves in being at the forefront and leading the way for others. We have promoted industry advancements and improvements. We have promoted growth and learning through the founding of the IDA Academy, numerous workshops and conferences, publications and educational programs. We have encouraged collaboration and the coming together of a broad range of interests including corporate, government, R&D, academia and individuals. We have promoted the adaptation of new technology. And most recently, we have embraced sustainability through our reframed values and mission statements.

Sustainability exists as a driver of innovation. It sits in the nexus of advanced technology, economic viability and environmental responsibility. Sustainability points us in a new direction that is completely different than what we have known with the ability to create through its innovation an industry paradigm shift. This shift will be brought on not only because of the advent of renewable energy, but rather the cumulative effect of several advancements coming online at once. The water industry, and indeed our world, is about to be transformed through sustainability and its resulting innovation.

As an organization, IDA is not sitting idly by watching the change but is preparing to lead in the change.

# Exploring the Potential of Latin America



**By Emilio Gabrielli**

It is enough to look at the latest issues of the IDA Desalination Yearbook to see that in recent years, Latin America has become one of the largest users of desalination and reuse technology, with a market size of the same order of magnitude as regions traditionally looked upon as the largest, like the Gulf and Northern Africa.

For instance, in 2013 the new contracted capacity of Seawater Reverse Osmosis in Latin America ranked third behind Asia, virtually tied for second place with the Gulf, according to GWI/DesalData. The bulk of this capacity is in the industrial sector, mainly in the oil & gas and mining sectors.

The application of desalination and reuse technology in the municipal sector is instead lagging behind its potential, at a time when unprecedented drought conditions are making water supplies, in particular for urban use, very critical in several countries from Brazil to Mexico, Chile to Argentina, etc.

This is mainly due to two factors, particularly evident in Brazil:

- Lack of awareness of the reliable technology alternatives available and its affordable costs at political and water utility levels
- Lack of suitable legislation, which could enable, regulate and facilitate use and reuse of water produced with desalination technologies

With this in mind, it was clear to us that the full realization of the potential of water reuse and

desalination in the region is vital to ensure economic and social development in the region. The IDA, as the association representing the worldwide desalination and water reuse community, had to respond even if (or maybe, even more so!) it still counts only a handful of members here, whereas it counts hundreds in all other regions of the world.

This is how the IDA conference, "Water Reuse and Desalination for Latin America Development," which took place in Rio de Janeiro on March 23 and 24, was conceived. Its goal was to bring to the region, for the first time, the full range of experiences accumulated in desalination and water reuse worldwide as well as in the area.

This message was delivered by 24 speakers who presented their keynote speeches in four sessions spread over two days. Our speaker roster included experts from many countries of the world, from Australia to Spain, Singapore to Israel, the United Arab Emirates to Saudi Arabia and Curacão, etc. But the contribution from the region was also impressive, from the host country Brazil to Chile, Argentina to Mexico, and Peru to Venezuela.

The first day was focused on success stories in desalination and water reuse in the municipal sector. The second day concentrated on applications in the industrial sector, oil & gas in the morning, and industry/mining in the afternoon. On both days, the program allowed time for debate following the last session.

More than 200 delegates, from Brazil and the whole region, showed their interest and appreciation for the opportunity to benefit from the

[continues on page 4](#)

# Exploring the Potential of Latin America

*continued from page 3*

experiences and knowledge shared throughout the conference. A significant overseas presence also confirmed the attention being focused on the Latin America market from around the world.

The strong presence of key players from Brazil was particularly noticeable. Both Petrobras and Rio de Janeiro's water utility CEDAE, whose president Jorge Briard was a keynote speaker in the opening ceremony, sent a large contingent of participants.

Most other Brazilian state water utilities, particularly those affected by water scarcity and thus more immediately interested in the potential of the technology, also sent delegates. São Paulo's water utility contributed with speakers and delegates. The President of ABES and Director of SABESP Dante Pauli Ragazzi was a speaker in the opening session.

Although Benedito Braga, President of the World Water Council and Secretary of State for Water Resources in São Paulo, thus at the head of the efforts to give a sustainable solution to the drought crisis, was unable to participate at the last minute, he sent his very interesting contribution, which was read to the delegates.

IDA President Abdullah Abdulaziz Al-AIshaikh contributed by offering his global view to formally open the conference and later delivering remarks on the experience of Saudi Arabia and its new focus on the application of renewable energy, such as solar, in desalination.

My conference co-chairman Miguel Angel Sanz and I trust that overall we have succeeded in fulfilling IDA's objective to contribute to a better understanding of the potential of reuse and desalination technology in the Latin American region, and particularly Brazil, and to catalyze a constructive debate about it.

We are extremely indebted to the experts, many of whom travelled from all the corners of the world at their own expense, to share their experience with the participants. I am sure I interpret the intention also of all participants in expressing a most heart-felt thank you! A no lesser thank you goes to the whole IDA Secretariat for their extraordinary effort of many months, with the help of our local partner Tratamento de Agua.

The apparent interest and success of the Rio de Janeiro conference no doubt encouraged the IDA Board of Directors to choose São Paulo as the place to hold its 2017 World Conference. This also means going to the only one of the IDA regions where IDA has not, to date, visited with one of its World Congresses, and the timing could not be better chosen!

In this context, the conference in Rio de Janeiro gave us an idea of the potential for São Paulo: going by our experience, São Paulo 2017 has the potential to be a resounding success for everybody involved, and I very much looking forward working with everybody else involved to ensure that this will be the case!

# In memory of Lee Kuan Yew

1923 - 2015



Lee Kuan Yew, who died on 23 March 2015, was the architect of Singapore's remarkable water story



**By Peter J H Ng, Chief Executive  
PUB, Singapore's National Water  
Agency**

Singapore has lost our founding father, and PUB the architect of our water story.

Lee Kuan Yew, Singapore's founding prime minister, passed away on 23 March 2015. He was 91.

Without a doubt, modern Singapore is largely Lee's creation. He, more than anyone else, provided the vision, the daring, the will and determination, and the sheer hard work that turned a forsaken piece of rock at the end of the Malayan Peninsula into the shiny prosperous city-state that is today's Singapore.

At independence half a century ago, Lee could already see, very clearly, the kind of Singapore that he wanted to fashion. And you can find his fingerprints on most of the things that we love and take for granted in Singapore: from the citizen military that safeguards our sovereignty, to the incredible safety from crime that we enjoy, to the world-leading schools that our children attend, to the world-class housing that we live in, to our open and advanced economy, to the world-leading incomes that we earn and, of course, to the clean sweet water that we can drink straight from the tap.

Lee Kuan Yew had recognized, from day one, that water security would be nothing less than existential for Singapore. He was acutely aware of Singapore's dependence on imported water, and worked tirelessly to secure this lifeline.

He had famously said that, *"Water dominated every other policy. Every other policy had to bend at the knees for water survival"*.

He was clear that we needed to find alternatives, and challenged the PUB to collect every drop of rain that falls on Singapore. That led to a massive cleaning up of our polluted waterways in order to turn them into water catchments. The most polluted of these were, of course, the Singapore River and the Kallang Basin.

Today, the Marina Barrage keeps the sea out of Marina Reservoir, which is fed by the Singapore and Kallang Rivers. It is Singapore's 15th reservoir and holds 10% of our fresh water. Today, two-thirds of Singapore is water catchment, and we have reliable alternative sources in desalinated water and *NEWater* made from reclaimed sewerage. Today, Singapore is a world leader in water husbandry and Singaporean water companies bring class leading capabilities to the global marketplace.

But this does not alter the fact that we remain a water-scarce country. Inspired by Lee, we work hard every day to guarantee this sustenance, seeking opportunity despite vulnerability, and turning a disadvantage into a source of strength. Every one of us in PUB owes it to Lee Kuan Yew to ensure that Singapore will never ever go thirsty. This is very much our sacred mission.

Indeed, what was said of Sir Christopher Wren is even more apt of Lee Kuan Yew: *"If you seek his monument, look around you"*. Come to Singapore and see for yourself what this man has built.

# Broadening Demand for Water Solutions Heightens Competition



**By Reese Tisdale**

*Drought, increasing water consumption, and improving technology costs are driving global deployment trends of more advanced municipal and industrial solutions in water-stressed regions. Bluefield Research takes a look at some promising trends drawn from the firm's in-depth analysis of municipal and industrial sector research provided to some of the world's leading water companies.*

Bluefield Research takes a look at some promising trends drawn from the firm's in-depth analysis of municipal and industrial sector research provided to some of the world's leading water companies.

## **Demonstrated municipal water reuse adoption scales**

To put things in perspective, the United States currently reuses approximately 3.4 billion cubic meters (m<sup>3</sup>) of water annually, making it the largest market for reuse by volume, globally. However, this only equals three percent of total supplies and drops the US well behind leading markets Israel and Singapore's reclaimed water rates of 20 percent and 30 percent, respectively.

While these positions have taken years to build-out, analysis shows that municipal wastewater reuse project opportunities are on the rise – forcing companies to rethink growth strategies and competitive positioning:

- Bluefield's February 2014 report, *Municipal Wastewater & Reuse in the GCC: Market Drivers, Trends, and Forecast, 2015–2020*, shows signs of real momentum in the GCC region. US\$22.4 billion of wastewater

treatment spending in the region is forecast from 2015-2020, representing a significant step toward bridging the region's wastewater infrastructure gap and offering significant Greenfield opportunities to complement a more established desalination sector.

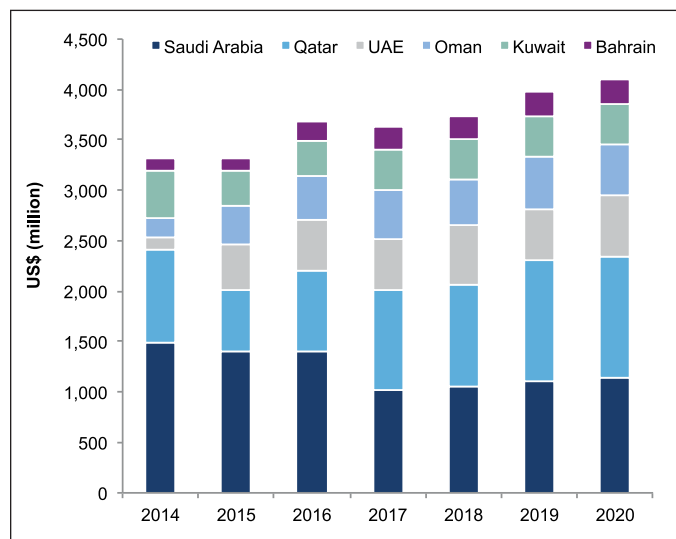
- Installed wastewater reuse capacity in Florida has grown 52% since 2000, reaching 6.6 million m<sup>3</sup>/d in 2014. Looking forward, analysis of more than 500 existing facilities and another 86 planned facilities – totaling more than US\$6 billion – signal opportunities, including public private partnerships, for water solutions providers looking to address the state's forecasted water challenges.
- California's inability to achieve the 20% voluntary water reduction in 2014 highlights the challenge of a conservation-focused approach. Increasing pressure on dwindling water supplies is expected to accelerate the permitting process for advanced water treatment and desalination projects. Senate Bill 322, signed by the California governor in September 2013 could spur development of California's pipeline of over 80 reuse projects and over 1.7 million m<sup>3</sup>/d in reuse projects.
- Texas's recently approved a US\$2 billion, rainy day fund for water infrastructure, which includes a requirement that at least 20 percent of funds go to water reuse and conservation projects. Additionally, the 2012 Texas State Water Plan calls for an additional 601 million m<sup>3</sup>/year of water from reuse strategies by 2030.

[continues on page 7](#)

# Broadening Demand for Water Solutions Heightens Competition

continued from page 6

## GCC Wastewater Treatment Forecast, 2015-2020



Source: Bluefield Research

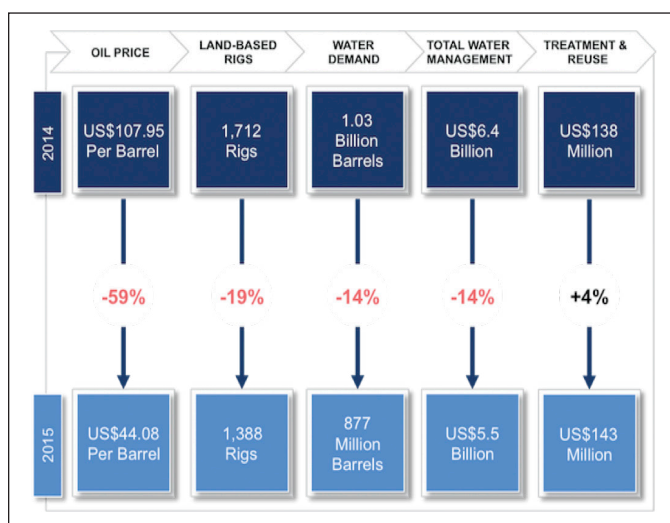
## Water security, compliance, and sustainability drive industrial reuse

While the municipal sector picks up momentum, advanced water treatment solutions are quickly being adopted across industrial sectors. Established in regions of high water-scarcity, the mining and energy sectors have been at the forefront of this shift. Bluefield has been monitoring the impact of falling oil prices and the impact on water opportunities across industrials:

- Nearly 50%, or US\$223 billion, of planned global hard-rock mining investment is slated for regions with medium-to-high water stress. Codelco’s 2015 desalination contracts with Aqualia and GS Inima demonstrate an upswing in Chile’s mining sector that has an estimated 900,000 m<sup>3</sup>/d of desalination capacity in planning across 12 projects.

- Bluefield has updated its water for hydraulic fracturing forecasts to reflect new market conditions, sparked by a US\$64/bbl decline in oil prices between June 2014 and January 2015. While overall US\$6.3 billion spend on water management is expected to decline 14% from 2014 – driven by transportation, storage, and disposal declines – the sector will undergo a 4% increase in water and wastewater treatment.
- While the Latin America’s mining sector is poised to rebound, 59% oil price declines are expected to undermine new project activity in oil-rich countries like Brazil going forward. A downturn will also be seen in Colombia, Venezuela and Trinidad & Tobago where three large plants totaling 272,000 m<sup>3</sup>/d – Puerto Gaitan, Paraguana and Pointe-à-Pierre – boosted capacity additions over the last five years. Low oil prices are expected to undermine any new additions.

## US Hydraulic Fracturing Outlook, 2014-2015



Source: Bluefield Research

continues on page 14

# Countdown to IDA World Congress



## IDA World Congress to Feature Robust Awards Program, New Categories

The IDA World Congress will offer more than \$25,000 US in awards related to its Technical Program including those for Best Papers and three new award categories.

Best Paper Awards will be presented in the following categories, which have been updated for the 2015 Congress. Each award carries a \$5000 US monetary prize.

**Environment and Sustainability** – A research topic, case study, technology or any project that shows how reuse or desalination can be applied while respecting the environment and applying the best sustainability principles.

**Research and Development** – Fundamental reuse or desalination research conducted in the laboratory that is in the “pre-commercialization” stage.

**Innovation** – An innovative technology that has reached the commercial stage but is not yet considered to be widely accepted.

**State of the Art** – The application of any established water reuse or desalination technology in such a way that it reflects best engineering practices.

**Young Leaders** – A general reuse or desalination paper from a Young Leader 35 years of age or younger.

In addition, for the first time World Congress delegates will have the opportunity to vote on three

new categories using a mobile app. The new categories are **Best Presenter, Best Moderator** and **Best Poster Presentation**. Each of these awards carries a monetary prize of \$500 USD.

In addition to the awards associated with the World Congress Technical Program, the following awards will be presented in San Diego:

**IDA Lifetime Achievement Award** to an individual for his or her outstanding contribution to the desalination and water reuse industry

**Emerging Leaders in Desalination Award**, sponsored by ARWADEX – Water Desalination Conference in the Arab Countries

**Presidential Awards** to be conferred by Dr. Abdullah Al-Alshaikh, IDA's President for 2013-2015.

## Second Announcement Due in May

The Second Announcement for the 2015 IDA World Congress will be mailed to IDA members the first week in May and also available online at [wc.idadesal.org](http://wc.idadesal.org). It contains detailed information about Congress activities, the Technical Program, and presentations and authors.

## Online Registration Opens in May

IDA wishes to remind readers that online registration for the IDA World Congress will open in May on the World Congress website, [wc.idadesal.org](http://wc.idadesal.org). For general information about registration, please contact Nancy Pagels at [npagels@idadesal.org](mailto:npagels@idadesal.org)

*[continues on page 9](#)*



# Countdown to IDA World Congress

continued from page 8

## A Look at the Technical Program Awards Criteria

Have you ever wondered how the Awards are chosen? IDA wants make this process transparent, so here is a look at the criteria established to select the Award recipients.

PRESENTATION AWARDS	A Weighted Percentage Score Will Be Applied to the Following Criteria
STATE-OF-THE-ART	<ol style="list-style-type: none"> <li>1) The paper presents the application of an established desalination or water reuse technology in a way that reflects the best engineering practices in all aspects of the project or topic presented.</li> <li>2) The project or topic presented is significant for the industry and in the world. It depicts an impressive piece of engineering, a solution or infrastructure that has long-term value to the desalination community.</li> <li>3) The paper was well written, the illustrations were meaningful, and the scientific data was well presented.</li> <li>4) The delivery of the presentation was interesting and objective. The presenter was able to engage the audience.</li> </ol>
INNOVATION	<ol style="list-style-type: none"> <li>1) The paper presents an innovative desalination or water reuse technology that has reached the commercial stage but is not yet considered to be widely adopted, i.e., there are few applications, trials, pilots or installations completed. However, the data presented on the technology suggests that it is likely to become a game-changer for the industry and that it could become the next state-of-the-art. The impact of the technology presented could be meaningful to the entire industry. Meaningful could refer to: lowering energy costs; eradicating membrane fouling; offering significant flux enhancement; better monitoring of scale formation in thermal desalination; etc. Alternatively, the paper could present a non-technical innovation (new delivery model, financial creativity, new way of accomplishing a meaningful task) with similar potential impacts.</li> <li>2) The topic of the paper is truly novel and original.</li> <li>3) The paper was well written, the illustrations were meaningful and the data was well presented.</li> <li>4) The delivery of the presentation was interesting and objective. The presenter was able to engage the audience.</li> </ol>
RESEARCH AND DEVELOPMENT	<ol style="list-style-type: none"> <li>1) The paper presents fundamental or applied research of a technology or concept related to desalination or water reuse that is at a pre-commercialization stage, but shows interesting signs of development which could lead to game changing discoveries or technologies once at maturity. The paper also demonstrates that the concept has a significant potential to be a viable technology.</li> <li>2) The findings have a high potential to help the industry understand certain phenomena in a much better way, (e.g., definition of a new relevant membrane fouling index, FO draw solution chemistry classification, etc.).</li> <li>3) The paper was well written, the illustrations were meaningful and the scientific data was well presented.</li> <li>4) The delivery of the presentation was interesting and objective. The presenter was able to engage the audience.</li> </ol>
ENVIRONMENT AND SUSTAINABILITY	<ol style="list-style-type: none"> <li>1) The paper presents a desalination or water reuse research topic, a case study, a technology or any project in such a way that demonstrates how desalination can be applied while respecting the environment and applying the best sustainability principles.</li> <li>2) The scale of the positive impact to the environment is significant.</li> <li>3) The paper was well written, the illustrations were meaningful and the scientific data was well presented.</li> <li>4) The delivery of the presentation was interesting and objective. The presenter was able to engage the audience.</li> </ol>
YOUNG LEADER	<ol style="list-style-type: none"> <li>1) The paper demonstrates scientific originality.</li> <li>2) The topic of the paper is relevant and important to the fields of desalination and/or water reuse.</li> <li>3) The paper demonstrates clarity of writing.</li> <li>4) The paper demonstrates organization of material and data (graphs, tables, etc.).</li> <li>5) The paper demonstrates excellence in the oral presentation and good delivery of the message.</li> </ol>

# IDA Announces Recipient of 2014-15 Fellowship Award



IDA is pleased to announce that Raed A.I. Bashitialshaaer, PhD, Dr. Eng., Lund University in Sweden, has been named the recipient of IDA's 2014-15 Fellowship Award.

Dr. Bashitialshaaer will receive a monetary award of \$10,000 US and will participate in a six-week attachment with the Public Authority for Electricity and Water (PAEW), located in Ruwi, Muscat, Sultanate of Oman. PAEW is the host agency for the 2014-2015 IDA Fellowship Program.

Dr. Bashitialshaaer has worked extensively in desalination as an expert in such areas as brine discharge modeling and analysis of impacts especially for the Middle East region, e.g., the Gulf, Red Sea and the Mediterranean Sea. In addition, he has written a number of papers for the Red Sea-Dead Sea Canal Project.

His research experience and fields of interest are environmental research; freshwater supply; cooperation between countries; water conflicts and solutions; desalination and brine discharge modeling; environmental impacts from desalination plants; and wastewater management.

His teaching experience and interests include environmental science and engineering, fluid mechanics, hydromechanics, engineering hydraulics, engineering hydrology, water resources engineering, water and wastewater treatment processes, introduction to desalination, and brine discharge.

In addition to earning his PhD at Lund University in Sweden, Dr. Bashitialshaaer received a Master of Science degree in water and wastewater management at the Department of Hydraulics-Civil Engineering at Near East University in Nicosia, Cyprus, where he also earned a Bachelor of Science Degree in Civil Engineering.

The goal of the IDA Fellowship Award Program is to facilitate the advancement of global expertise in desalination and water reuse through the exchange of talents, knowledge and skills. It is now considered to be one of the industry's most prestigious awards, recognizing individuals who have demonstrated exceptional professional achievements and dedication to advancing desalination and water reuse.

## IDA Awards 2017 World Congress to São Paulo, Brazil

*continued from page 1*

– world leaders in all sectors of the desalination and water reuse, typically representing more than 60 countries. Attendance at the 2013 IDA World Congress in Tianjin, China exceeded 2,000.

The 2015 IDA World Congress will take place in San Diego, California from August 31-September 4, featuring a robust four-day Technical Program, open forum panel discussions, industry-leading Exhibition, awards program, plant tours and networking events throughout World Congress week.

# IDA Director Elections

## Nomination Period Opens for Upcoming IDA Director Elections

With the two-year term of IDA's current Board of Directors set to expire on September 3, IDA's Membership and Elections Committee is seeking candidates for election to its 2015-2017 Board of Directors.

### Nominations

The nomination period for the 2015-2017 Board of Directors opened April 20, 2015. All persons who have been continuous active members in the IDA since April 20, 2014 are eligible to stand for election. The nomination process will close on June 8, 2015. All nominations should be sent to the IDA Office to the attention of the IDA Secretary General, Ms. Patricia A. Burke at [paburke@idadesal.org](mailto:paburke@idadesal.org).

Current directors who wish to stand for re-election should notify Patricia Burke at [paburke@idadesal.org](mailto:paburke@idadesal.org) prior to June 8, 2015.

### Regional Representation

In order to assure proper regional representation, directorships are allocated in proportion to the number of Class I and Class II members in good standing in each region. Twenty-one directors may be elected to the Board of Directors, and each region may have at least one and no more than seven. Based on the membership numbers, the Regional allocation of Directors for the 2015 election is as follows:

EU (Europe).....	5
LAC (Latin America, Caribbean).....	1
MEA (Middle East, Africa).....	7
NA (North America).....	4
PA (Pacific Asia).....	4

### Candidate Eligibility

In order to be placed on the ballot, candidates must have been selected by the Membership and Elections Committee; proposed by letter or petition by at least five Class I and Class II members or their designated representatives from the same region; or submit a written request to the Committee to be considered for election and be sponsored by at least five Class I and Class II members or their designated representatives.

Because the Board of Directors is IDA's governing body, one of the major criteria in considering candidates is their ability to provide leadership and make significant positive contributions to the Association. Candidates should be knowledgeable about IDA's mission and policies and be prepared to assist in further developing IDA's vision, programs and services.

In addition, they should be prepared to dedicate a significant amount of time to their duties should they be elected to IDA's Board. For example, Directors are expected to prepare for and attend two Board meetings per year, actively participate in IDA's standing committees, undertake special assignments, and respond promptly to communications from Committee chairpersons and IDA's headquarters.

Candidates must be prepared to serve the desalination and water reuse community as a whole rather than espouse the particular interest of any single entity. They must maintain confidentiality when appropriate, and avoid prejudiced judgments on specific issues. The candidate should also have standing within the desalination and water reuse industry.

[continues on page 15](#)

# YLP Spotlight

*IDA's Young Leaders Program was well represented at both the AMTA/AWWA Membrane Technology Conference and Exposition in Orlando, Florida and IDA's conference "Water Reuse and Desalination for Latin America Development" in Rio de Janeiro.*

## AMTA/AWWA Membrane Technology Conference and Exposition



IDA YLP was present this year at the AMTA/ AWWA Membrane Technology Conference and Exposition held March 2-5 in Orlando, Florida. As part of its ongoing series of networking events, IDA YLP organized a networking reception for young professionals on March 4 at the conference venue, the Rosen Shingle Creek Hotel.

The aim of the networking event was to provide young professionals in the early stages of their career with an opportunity to come together and exchange experiences in an informal setting. The event opened with a short welcome by Dr. Mike Dixon, YLP Co-chair, followed by a welcome and short introduction to the YLP initiative by Mr. Ryan Furukawa, North America Coordinator for IDA YLP.

A number of well-established professionals were also present at the reception and engaged actively with the young professionals, discussing career opportunities, current developments and future challenges for the desalination industry.

The reception lasted for over two hours and was complemented with food, drinks and music. IDA YLP Special/ Technical Coordinator, Dr. Assiyeh Tabatabai, who helped facilitate the event, was also present at the IDA booth, together with Leslie Merrill, actively engaging potential IDA YLP members throughout the conference.

## YLP in Rio de Janeiro



IDA's Young Leaders organized an event that took place the first night of the well-attended "Water Reuse and Desalination for Latin America Development" conference, which was held March 23-24 in Rio de Janeiro, Brazil.

[continues on page 13](#)

The YLP event, which spanned two hours, offered a great opportunity to make new connections, with ample time for networking and sharing experiences. It drew about two dozen attendees as well as such water industry experts as Emilio Gabbrielli (1st Vice President of IDA and Director, Overseas Business Development, Global Sales Water Treatment for Toray), Miguel Angel Sanz (2nd Vice President of IDA and Director Development & Innovation, Degrémont), Carlos Cosin (Chairman & CEO of Abengoa Water), Guillaume Claret (Executive Vice President at H2O Innovation and one of the YLP founders), and Ryan Furukawa (Director - Specialty Chemicals at Professional Water Technologies and YLP member).

Each of these leading experts gave an inspiring speech to the attendees, talking about their passion for the water field, how the YLP started, advantages of being part of the YLP and other topics. All attendees expressed interest in becoming a YLP member.

## **Nomination Period Now Open for 2015-2017 Young Leaders Program Committee**

The nomination period is open for individuals who wish to seek election for the 2015-2017 Young Leaders Program Committee (YLPC) members. The nomination period began April 20, 2015 and ends on June 8, 2015. The new YLPC will assume office on September 3 at the conclusion of the 2015 IDA World Congress.

The YLP Committee consists of five Regional Coordinators representing Europe, North America, the Middle East/Africa, South/Latin America and the Caribbean, and Asia – Pacific

– Australia, plus five Special/Technical Coordinators. The Committee Chairperson(s) will be selected by the Young Leaders Program Committee from the Regional and Special/Technical Coordinators voted into office.

In addition to these Committee members, the YLP shall also include one or more Advisors – members or officers of the IDA Board of Directors, and an IDA staff member who serves as the IDA Liaison with the Committee. These positions are assigned by IDA and its acting Board of Directors

## **The Nomination and Voting Process**

Both the Regional and Special/Technical Coordinators shall be self-nominated from existing IDA members who meet the eligibility requirements – i.e., they must be continuous active IDA members since April 20, 2014 and 35 years of age or younger at the start of the membership year (July 1).

Within 10 days after the start of the nomination period, IDA sends a notice to all YLP members advising them of (1) the election process and the schedule, (2) the procedure to nominate candidates and (3) the number of committee members. Candidates must provide a photo and biography to be posted on IDA's website.

Following the close of the nomination period, members of the Young Leaders Program can vote online for the Regional and Special/Technical Coordinators via ballots posted on the IDA website.

The YLPC term runs from the final day on the World Congress (September 3, 2015) through the next World Congress held in 2017 (dates

*[continues on page 14](#)*

# YLP Spotlight

*continued from page 13*

to be determined). Committee members may serve for an unlimited number of terms until they reach the age of 35, but they cannot occupy the same position for more than two consecutive terms. For example, if someone has been Regional Coordinator for two terms, he or she can either apply for a position as a Special Program Coordinator or as Chairperson, but cannot renew for a third term as a Regional Coordinator.

## Positions

The Committee shall consist of 10 positions: one for each of the five regions, and five for the special/technical program. Coordinator duties and responsibilities shall include, but not be limited to:

- Regional Coordinator. Regional management and planning and execution for Educational Tours. Promotes/handles YLC activities on a regional level, participation in bi-monthly YLPC meetings and conference calls; presence at annual YLPC meetings
- Special Technical/Program Coordinator. Special activities and programs not specific to a region, i.e., networking activities, website maintenance,

career services, assisting co-chairs with budgets, assisting regional coordinators with educational tours, participation in bi-monthly YLPC meetings and conference calls, presence at annual YLPC meetings, etc.

The positions and allocation for the 2015 election are as follows:

European Regional Coordinator.....	1
Latin America, Caribbean Regional Coordinator.....	1
Middle East, Africa Regional Coordinator.....	1
North American Regional Coordinator.....	1
Pacific Asia Regional Coordinator.....	1
Special/Technical Program Coordinators.....	5
<b>TOTAL .....</b>	<b>10</b>

For more information on this election, please contact Nancy Pagels at [npagels@idadesal.org](mailto:npagels@idadesal.org)



## Broadening Demand for Water Solutions Heightens Competition

*continued from page 7*

Bluefield’s data-backed research indicates that global desalination, water treatment, reuse rates are expected to increase substantially and competition is scaling rapidly across the industry value chain. Staying ahead of the market volatility, competitor positioning, and policy drivers is becoming even more critical as water

companies– established players and new market entrants– develop strategies identify and penetrate new customer bases.

*Reese Tisdale is President of Bluefield Research and is based in the company’s Boston, Massachusetts office. To read more insights and analysis on the global water market trends and opportunities by the Bluefield Research, please visit [www.bluefieldresearch.com](http://www.bluefieldresearch.com).*

# Lance Johnson Joins IDA Mentor Program



Lance Johnson, respected industry veteran and Secretary of the IDA, has joined IDA's growing mentor program. Mr. Johnson brings more than three decades of leadership experience to the initiative. Most recently, he was

Business Director for Dow Water & Process Solutions' reverse osmosis business unit (RO BU) and Asia Pacific Commercial Director for the company. During his career he has lived in Luxembourg, Germany, France, China, and the United States, offering a strong international perspective to prospective mentees.

The purpose of the IDA Mentor Program is to connect an industry leader with an emerging industry professional through a mentoring relationship that can lead to a transfer of knowledge and broadening of networks between the two. The program is based upon encouragement, constructive comments, openness, mutual trust, respect and a willingness to learn and share information. While it will initially be aimed at YLP members, it may be broadened in scope at a future date.

For the emerging professional – the mentee, this program presents an opportunity to draw on the experience of established industry professionals in terms of their technical knowledge and also their business experience. For the mentor, it presents an opportunity to further strengthen the desalination and water reuse community by fostering the next generation of leaders. IDA is working closely with the YLP to manage and implement the program.

Other mentors include Lisa Henthorne, IDA Past President and Senior Technology Officer of Water Standard; Prof. Harvey Winters, Fairleigh-Dickinson University, faculty member of the IDA Desalination Academy and past IDA Director; and Leon Awerbuch, IDA Director and Dean of the IDA Desalination Academy and President/CTO of Leading Edge Technologies Ltd. IDA's intends to recruit mentors from all regions of the world and with fluency in a variety of languages.

If you are interested in becoming a mentee or joining the program as a mentor, please contact Patricia Burke at [paburke@idadesal.org](mailto:paburke@idadesal.org).

## IDA Director Elections

*continued from page 11*

### Elections

Directors are elected by a direct vote of IDA's Class I and Class II members. The Membership and Elections Committee asks that each candidate provide a biography and brief description of what he or she intends to contribute to the Association. Ballots will be posted on the website by June 17,

2015 and voting will begin. IDA members will be able to log in and vote electronically. Voting will close on August 5, 2015. Results will be posted on the IDA website prior to August 15, 2015 and members will be notified of the results by email.

For more information, please visit the IDA website at [www.idadesal.org](http://www.idadesal.org).

## New Horizons for Desalination Conference Set for May



IDA's "New Horizons for Desalination" conference will take place on May 17-19 against the beautiful backdrop of Santa Margherita, Portofino, Italy.

This international conference is centered on social responsibility in providing future generations with a sustainable source of water and the need for innovation to generate new and ever more environmentally friendly options to support water needs. It is being held in cooperation with the [Rotary Club La Spezia](#), and part of the conference proceeds will be donated to a water-related humanitarian project.

The program will begin with welcome remarks from Dr. Corrado Sommariva, IDA Director and Past President and Managing Director Generation – Middle East of ILF Consulting; Mr. Edoardo Garibotti, Managing Director of

Termomeccanica Pompe; H.E. Dr. Abdulmalek A. Al Alsheikh, General Secretary of the Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW); and representatives from Rotary International and EDS, IDA's European affiliate.

Mr. Leon Awerbuch and Mr. Ghassan Ejjeah will lead an introductory overview on **Water Issue: Regional Perspective**, followed by technical sessions will focus on:

- **Desalination – Innovative Solutions**, led by session chairs Dr. Nobuya Fujiwara and Mr. Jose Diaz-Caneja
- **Efficiency Improvements and Sustainability in Power and Desalination**, Mr. Joan Galtes Cruces, session chair
- **Alternative Applications of Desalination and Membrane Systems**, Mr. Klaus Kallenberg, session chair
- **Renewable Energy Application to Desalination**, Mr. Michel Canet and Mr. Alistair Munro, session chairs
- **MED-MSF Desalination Technology Enhancement**, Dr. Roberto Borsani, session chair

The conference, which also features an Exhibit area, will conclude with presentation of a donation to Rotary Club La Spezia in support of a water related humanitarian project.

For more information or to register, please visit [www.idadesal.org](http://www.idadesal.org)

[continues on page 17](#)



## IDA Salutes Sponsors of New Horizons for Desalination Conference

IDA wishes to thank the following organizations for their support of this conference.

### Platinum Sponsor



Prince Sultan Bin Abdulaziz  
International Prize for Water

### Silver Sponsors

**ABENGOA**

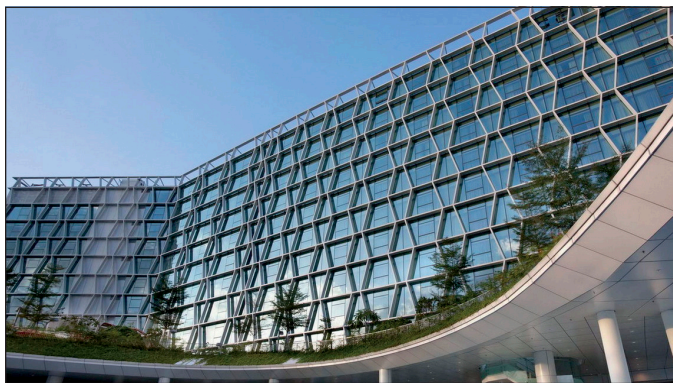


**cadagua**



# IDA Desalination Academy Spotlight

## IDA Announces Desalination Academy Seminar in Singapore



In collaboration with Elsevier, the IDA Desalination Academy will present a two-day seminar in Singapore on July 25-26, 2015, to be held at the Capri by Fraser Hotel, “The Pod” room, in Changi City.

**Day 1** will focus on “Pretreatment for Seawater Reverse Osmosis Desalination Plants”, taught by Mr. Nikolay Voutchkov, PE, BCEE, President of Water Globe Consulting, LLC, an independent technical advisory company to public utilities implementing large desalination projects in Australia, USA and the Middle East.

This module will present practical information about key pretreatment processes widely used

in reverse osmosis (RO) desalination plants worldwide. It covers selection, operation, maintenance, monitoring, troubleshooting and optimization of conventional and membrane pretreatment technologies.

**Day 2** will address “System Design, Operation and Economics of the Desalination Process”. It will be taught by Dr. Mark Wilf of RO Technology, widely recognized as a global expert on membrane applications. Topics will include technical and performance information on commercial membrane elements as well as an overview of the RO system design with examples utilizing computer projection programs.

Registration for this seminar is now open.

For more information, please visit:

<http://idadesal.org/academy/>



# Calendar of Events

**May 10-14, 2015**

**EuroMed 2015**

Palermo, Italy

**May 12-14 2015**

**Ozwater'15**

Adelaide, Australia

**May 17-19, 2015**

**New Horizons for Desalination**

Santa Margherita, Portofino, Italy

**June 17, 2015**

**Use of New Products and Materials  
for Desalination and Water Reuse**

Madrid, Spain

**July 1-4, 2015**

**2nd Int'l Workshop on Membrane Distillation**

Ravello (SA), Italy

**August 30 – September 4, 2015**

**IDA 2015 World Congress**

San Diego, CA USA

**February 1-4, 2016**

**AWWA/AMTA 2015 Membrane Technology  
Conference & Exposition**

San Antonio, Texas, USA

**May 22-26, 2016**

**Desalination for the Environment,  
Clean Water and Energy**

Rome, Italy

**May 31-June 3, 2016**

**CaribDA 2016 Biennial Conference & Exposition**

Trinidad

**September 26-27, 2016**

**IDA Water Reuse Conference**

Nice, France

**November 6-9, 2016**

**Membranes in Drinking and Industrial Water Production**

Leeuwarden, The Netherlands

**May 6-10, 2018**

**Desalination for the Environment,  
Clean Water and Energy**

Nantes, France



**International Desalination Association**

PO Box 387, Topsfield, MA 01983 USA

Website: [www.idadesal.org](http://www.idadesal.org)

Email: [info@idadesal.org](mailto:info@idadesal.org)