

CARIBDA NEWS



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MESSAGE FROM THE PRESIDENT

By: Manuel Pereira, Aqualectra Production

Dear CaribDA Members and Friends,
On behalf of the CaribDA Board, I would like to thank you all for your continued support of our organization. We have been actively increasing our membership and focusing on enhancing the benefits to our members. Remember that Membership Dues are due in June. There are a lot of new and exciting things happening in the Caribbean Desalination Association and you don't want to miss out.

In addition, Board Elections are right around the corner! We encourage you in running for a Board Position, to be part of this tremendous organization that is committed to promote the appropriate use of desalination, desalination technology and water reuse in the Caribbean. Furthermore, if you know someone that would be an asset to the organization please email your nominations to CaribDA at adminassist@caribda.com by April 15 to be on the 2012 Nomination Slate.

There has been an increasing focus on operator training issues in the Caribbean and

we are looking forward to our Pre-Conference Operator Workshop that will be held in Aruba in June at the CaribDA Biennial Conference which is held in conjunction with W.E.B. Aruba N.V. The Pre-Conference Workshop enables valuable learning, information sharing and networking amongst key operations staff from the region and beyond. We are pleased to be holding our conference jointly this year and celebrating W.E.B.'s 80th Anniversary. It will be an event you will not want to miss!

I would like to end this note by again thanking those members who have continued to support the organization and new members who have recently joined us. I encourage you to let us know your thoughts and needs from CaribDA in the future and welcome your active participation at forthcoming workshops and meetings.



Manuel Pereira
CaribDA Chairman

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**CHECK OUT
THE
JOB BOARD !**
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CARIBDA 2012 CONFERENCE: "Save The Date"

JUNE 19-22 2012

By: Paul Choules, Water Standard

CaribDA is pleased to announce the third Biennial CaribDA Conference in Aruba. The conference will be held in conjunction with W.E.B. Aruba N.V. who will be celebrating 80 years of Desalination. The conference will start with an evening reception on Tuesday, June 19th which is sponsored by W.E.B. Aruba N.V. and close with a site visit at their facility on Friday, June 22nd, 2012. Details on the

conference, registration and hotel information are available on the website. The main sponsors of the conference are W.E.B. Aruba N.V. and Veolia Water Solutions & Technologies. Please mark your calendar now to join us at this must-see conference.



Diamond Conference Sponsors:



Please see pg. 6
for all other
Sponsors and Exhibitors



CRITICAL WATER SHORTAGES AT RANDOLPH HARLEY POWER PLANT

By: Shawn Meyer-Steele, Seven Seas Water Corporation

During the 2011 Holiday Season, The Virgin Islands Water and Power Authority (WAPA) experienced critical water shortages at the Randolph Harley Power Plant on St. Thomas. The shortages impacted over 5,500 residents, local businesses and several hundred thousand visiting tourists during the height of the holiday tourist season. The shortages were caused by challenging equipment failures WAPA faced while making much-needed repairs to their existing thermal desalination equipment.

With WAPA's plant experiencing significant downtime and no water available in storage, immediate assistance was provided by the VI National Guard, who brought in a total of eight (8) seawater reverse osmosis units capable of producing 40,000 gallons per day each. While the temporary supply offered limited relief, it was not enough to replace the average daily demand of 1,800,000 gallons per day.

Having partnered with Seven Seas Water during an emergency situation on St. Croix in the past, and with an existing Build Own Operate (BOO) contract in place for water supply services on the island of St. Croix, WAPA was aware of Seven Seas Water's capabilities to respond quickly by utilizing their containerized mobile desalination units. WAPA called on Seven Seas Water to provide an emergency supply of 2,000,000 gallons per day in the shortest timeframe possible.



A fast-track solution was paramount to mitigating the economic and social impacts caused by the water shortages that were occurring during the peak tourist season.

With an established public-private-partnership, coordination of the quick delivery and installation was successfully achieved. Under a BOO arrangement, WAPA and Seven Seas partnered to avoid project delays by implementing a plan that ensured all the permitting and civil requirements were met on a fast track basis. Seven Seas Water shipped a total of eight SWRO units to St. Thomas in two phases. Eleven days from contract signing, three SWRO units arrived at the Randolph Harley Power Plant. The equipment was up and running, producing 750,000 gallons per day (GPD) a mere 29 days from contract signing. The second

shipment of (3) three containers arrived 19 days from contract signing, meanwhile two additional Seven Seas Water 250,000 GPD containerized units were sent to St. Thomas from the existing Seven Seas Water facility on St. Croix.

All the units were installed, operating and providing a total capacity of 2,000,000 gallons per day a record setting 46 days from contract signing. The WAPA potable water holding tanks, which were virtually empty when the call was placed to SSW, were quickly filled with over 23 million gallons.

Seven Seas Water manages, operates and maintains the water facility, guaranteeing a reliable water source at a fixed cost per gallon over the entire term of the contract.

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In 2010, Seven Seas Water bid on and won a very competitive international tender and subsequently signed a water sale agreement with WAPA to install a state-of-the-art SWRO system to replace WAPA's aging thermal desalination equipment. In October 2011, while in the permitting process for the long-term project, the water emergency occurred on St. Thomas. Seven Seas Water was asked to immediately provide a short-term solution until the permanent plant could be constructed. Approval to proceed on the installation of the permanent SWRO facility was received in mid-February 2011. During the construction period the emergency containers will continue to operate. Once the permanent installation is producing water the containers will be removed and sent to another location. The new Seven Seas Water facility will produce all the drinking water for WAPA on St. Thomas and St. John for a water sale price that is less than half the cost of WAPA's production with their thermal units.

JOB BOARD

C.C.A. Limited - We are recruiting a Water Department Manager.

(see <http://ccalimited.com/html/careers.html> for more info)

JOB TITLE: Water Department Manager **POSITION GRADE:** 5 **REPORTS TO:** Head of Services

PURPOSE OF POSITION: To manage all aspects of the water department including technical, financial and staff management issues. To plan and oversee the effective maintenance and operation of all water production, water distribution, treatment and wastewater facilities.

JOB LOCATION: Located in Grand Bay, Canouan Island St Vincent & the Grenadines.

To apply for this position, please email your CV to: hr@ccalimited.com

C.C.A. Limited More Job posting online! - <http://ccalimited.com/html/careers.html>

CARIBDA

JOB BOARD POSTING

**COMPLIMENTARY FOR MEMBERS AND
AVAILABLE AT A FEE FOR NON-MEMBERS**

ADVERTISING SPACE AVAILABLE

**NEWSLETTER ADVERTISEMENT IS
AVAILABLE**

Please contact CaribDA for rates and availability.

CARIBDA

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MEMBER SPOTLIGHT - WATER STANDARD

By: Paul Choules, Water Standard

WATER STANDARD is a global water treatment company committed to delivering innovative water treatment and desalination solutions to the Oil & Gas and Water Industries, both onshore and offshore. With proprietary designs, patents and globally recognized management, WATER STANDARD supplies solutions for water-based enhanced oil recovery and produced water challenges, as well as for industrial and municipal applications.

WATER STANDARD, emerging as a leader in this field, delivers

unique solutions for water-based enhanced oil recovery through its proprietary H2O Spectrum technology including the ability to provide customized water quality that enhances reservoir recovery at every step of the injection cycle; from low salinity, to low hardness, low sulfate flooding, or specialized qualities for CEOR.

WATER STANDARD's proprietary water intake, concentrate discharge, and hybrid systems provide significant environmental and operational advantages over alternatives and an environmentally

responsible and cost-effective solution to providing customized water on-demand. In GWI's 2011 Produced Water Market Report, WATER STANDARD was identified as "the only treatment specialist to have locked on to the opportunities in desalination for enhanced oil recovery". In addition, in Citigroup's 2011 Water Sector Handbook, WATER STANDARD was listed "top" among "private companies in water that...have the potential to become impact players in the sector".

MEMBER SPOTLIGHT - INTRODUCTION NALCO TO THE CARIBBEAN

By: Anders Hallsby, NALCO Company

Introducing Nalco, an Ecolab Company

Nalco is a Global company with operations in 150 countries and more than 12,000 employees. In the Caribbean, Nalco provides products and services for industry, hospitality and municipal customers. Our focus has historically been on reducing water use and increasing the efficiency and reliability of the operation by providing expertise, innovative technology and the right chemicals for every application. Nalco has a local presence with sales engineers and technical experts based in Puerto Rico, Dominican Republic, Trinidad, and throughout Central and South America, servicing the entire Caribbean basin, backed up by research centers in the United States, Brazil, Europe and Asia. Nalco 3D TRASAR® technology is available for Cooling Systems, Boilers and Membranes, which

allows our customers to improve the operational performance and reduce total cost of operation.

On December 1, 2011, Nalco became part of Ecolab. The merger brought together two highly complementary businesses – combining Nalco's leading positions in water and energy services with Ecolab's strengths in the food and beverage, healthcare and institutional markets. Together, Ecolab and Nalco are able to provide even more value to our customers in the Caribbean.



CALENDAR OF EVENTS 2012

JUNE 19, 2012

CaribDA 2012 Pre-Conference Workshop, Aruba Understanding and Preventing Corrosion in Caribbean SWRO Plants

In conjunction with our Aruba Conference, CaribDA has the pleasure to announce that Dr. Glenn Byrne of Rolled Alloys will present a one day workshop discussing the different types of corrosion affecting SWRO plant high pressure piping, how to recognize the source and type of corrosion and how to prevent corrosion. Dr. Byrne has extensive experience in all phases of metallurgy and now leads a team that works proactively with specifiers and fabricators to refine and optimize purchase specifications and fabrication procedures and processes, welder training and qualification to optimize the sea water corrosion resistance and performance of corrosion resistant alloys in SWRO applications.

In order to provide a workshop that is of the greatest benefit to the membership, we ask that you submit in advance questions / concerns / topics of interest / pictures, etc. so that Dr. Byrne can be prepared to help you solve your problems. Please send your information to adminassist@caribda.com by May 1, 2012.

JUNE 19-22, 2012

CaribDA 2012 Conference & Exposition, Aruba

in conjunction with the W.E.B. Aruba N.V.'s 80th Year Anniversary Celebration

OCTOBER 2012 - TBD

CaribDA Workshop, Bahamas

2012 Conference & Expo - Thank You Sponsors & Exhibitors!

Sponsorships & Exhibit Spaces are Still Available...Contact CaribDA Now to Register Your Company!

DIAMOND CONFERENCE SPONSORS:



GOLD CONFERENCE SPONSORS:

- IDE Americas, Inc.
- Seven Seas Water Corporation

SILVER CONFERENCE SPONSORS:

- Consolidated Water Co. Ltd.

BRONZE CONFERENCE SPONSORS:

- Biwater AEWT, Inc.
- Energy Recovery, Inc.
- Fluidra
- GE Water & Process Technologies
- NanoH²O, Inc.

AWARDS BANQUET/ EXHIBITOR RECEPTION/ REFRESHMENT BREAK:

- Degremont, S.A.

LUNCHEON:

- Avista Technologies, Inc.
- Fluidra

PENS:

- Professional Water Technologies

MEDIA:

- Global Water Intelligence

CONFERENCE EXHIBITORS:

- American Membrane Technology Association
- American Water Chemicals
- Biwater AEWT, Inc.
- Consolidated Water Co. Ltd.
- Danfoss A/S RO-Solution
- Energy Recovery, Inc.
- FEDCO
- Fluidra USA
- GE Water & Process Technologies
- IDE Americas, Inc.

CONFERENCE EXHIBITORS:

- International Desalination Association
- NanoH²O, Inc.
- National Oilwell Varco
- Piedmont Pacific Corp.
- Rolled Alloys
- ROPV
- Seven Seas Water Corp.
- Taprogge America Corp.
- Veolia Water Solutions & Technologies
- Water Tech
- W.E.B. Aruba N.V.

**2012 Board Elections
CALL FOR NOMINATIONS!**



We are looking for Board Members who are willing to donate time & energy, and bring fresh ideas to continue to make CaribDA even better!

Who do you think can best represent our Greater Caribbean Organization?

Nominate yourself, or someone you believe would make great contributions as a board member.

Please email your nominations for CaribDA 2012 Board Elections to adminassist@caribda.com

BOARD ELECTIONS

Deadline to Nominate is April 15th!

Please email your Nominations today! If you are interested in running for a Board Position or know someone that would be an asset to the organization please email your nominations to:

adminassist@caribda.com

WE NEED YOUR INPUT FOR THE CARIBDA NEWS

- *Member contributions are welcome. Please contact us* contact us by email at adminassist@caribda.com
- *Take this opportunity to place your company or plant in the news*
- *Share your experiences with others*
- *If you are interested in joining the editorial staff, please contact us*

CHECK US OUT ON THE WEB!
www.caribda.com

MEMBERSHIP UPDATE

By: Paul Choules, Water Standard

Since our last newsletter we have welcomed 9 new members!

Ronald Colas

Burns & McDonnell Engineering Company, Inc.

Alisha Cooley

Fluid Equipment Development Company

Lucina Equihua

Degremont

Tri Huynh

Toray Membrane USA, Inc.

Felipe Pinto

Dow Water Solutions

George Schlutermann

Burns & McDonnell Engineering Company, Inc.

Mitch Sweat

Southeast Industrial Sales

Peter Waldron

Toray Membrane USA, Inc.

Jacob White

Burns & McDonnell Engineering Company, Inc.

BOARD OF DIRECTORS

EXECUTIVE OFFICERS

<u>MEMBER</u>	<u>TERM</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>EMAIL</u>
Manuel Pereira - President	2010-2012	Aqualectra Production	5999-525-0011	mpereira@aqualectra.com
Linda Dudley - Vice President	2010-2012	Ionics Freshwater Limited	246-425-6910	linda.dudley@btopenworld.com
Gerard Pereira - Treasurer	2010-2012	Consolidated Water Co. Ltd.	345-945-4277	gpereira@cwco.com
Anders Hallsby - Secretary	2010-2012	NALCO Company	630-305-1871	gahallsby@nalco.com

BOARD OF DIRECTORS

<u>MEMBER</u>	<u>TERM</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>EMAIL</u>
William Anderson	2010-2012	Energy Recovery Inc.	510-483-7370	wanderson@energyrecovery.com
Paul Choules	2010-2012	Water Standard	713-400-4764	pchoules@waterstandard.com
Emilio Gabbrielli	2010-2012	Toray Membrane USA, Inc.	+55 21 8221 9896	gabbrielli.emilio@toraywater.com
Shawn Meyer-Steele	2010-2012	Seven Seas Water Corporation	305-859-2329	smsteele@7seaswater.com
John Thompson	2010-2012	Desalination Company of Trinidad & Tobago Limited	868-636-3725	john.thompson@desalcott.com