

Aquatech Innovation Award 2015 winners announced

Top prize goes to DyVaR wastewater treatment system

The waiting and anticipation of all the many entrants in the 2015 Aquatech Innovation Award reached a peak on Monday night when the overall winner and the category winners were announced at the Amsterdam International Water Week and Aquatech Amsterdam opening ceremony.

This year's overall winner, selected by a panel of expert judges, is a zero liquid discharge wastewater treatment system aimed in particular at the oil & gas industry. The DyVaR O&G ZLD technology from Dutch company Salttech BV beat off fellow finalists Arvia Technology and ATG UV Technology to win the Waste water treatment category, and then secured overall first place.

'I am very excited about the winner,' commented Dr Cees Buisman, jury chairman of this year's Award. Highly saline water from the oil and gas industry is being produced in increasing quantities. 'The problem of how to

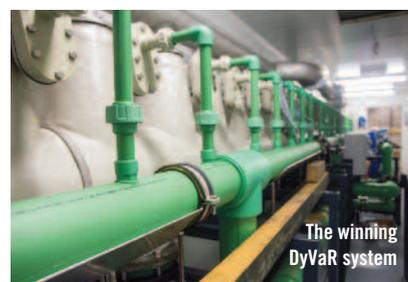
networks; MPC-Buoy, an ultrasonic system for treating algal blooms; and Prognosys, an instrument predictive diagnostic system.

The Aquatech Innovation Award continues to grow in size and in terms of its status, with more than 70 companies entering this year's competition. The number of nominees put forward by the jury as finalists also represented an increase, due in particular to a strong showing by smaller companies.

The range of problems addressed by the finalists' technologies are also highly relevant to the challenges faced by the sector. 'It is satisfying to see that the Aquatech Innovation Award and those who are seeking to win it are matching the trends in the water sector,' added jury chair Buisman.

The 2015 Aquatech Innovation Award winners

Overall winner and Waste water treatment category winner:
DyVaR O&G ZLD, Salttech BV



Not-yet-to-market category winner:
PearlAqua, Aquisense Technologies

Process control technology & Process Automation category winner:
Prognosys predictive diagnostic system, Hach

Transport & Storage category winner:
AQS-SYS, Aquarius Spectrum Ltd.

Water supply / water treatment category winner:
MPC-Buoy: Monitor, Predict & Control Algal Blooms, LG Sonic BV

A warm welcome to our 25th anniversary!



**The Aquatech Amsterdam team (LEFT to RIGHT)
Top row: Marieke, Martine, Daan, Ni, Patrick, Sandra, Heleen
Bottom row: Annelie, Annelies, Natasha, Stefanie, Thijs and Annette**

It's party time at Aquatech as we celebrate our 25th anniversary! From its humbler but nonetheless highly praised debut back in 1964 to the present day, Aquatech has grown to become the number one technology showcase and leading show for networking with industry professionals from all over the world. That's a truly incredible achievement and something to celebrate in itself.

At this 25th edition, we proudly present a record-breaking 800+ exhibitors and more events surrounding the show than ever. With an historic focus and stellar reputation as far as drinking water is concerned, today's Aquatech pays equal attention to waste water treatment.

Networking and innovation are always the keystones at Aquatech and we are constantly striving to strengthen these even further. Aquatech offers ample opportunities to network, more knowledge sessions than ever, its own innovation platform in the shape of the InnovationLAB, the brand new Industrial User Experiences, and an array of cutting edge products and technologies that will impact the development of the water industry now and for tomorrow.

Aquatech is proud to be part of the Amsterdam International Water Week (AIWW), the platform for new alliances and fresh ideas – connecting industry, science, business, policy and tech-

nology. AIWW crosses borders between water and sanitation, delta technology, food, agriculture, finance and governance, bringing together a unique mix of professionals conducive to the transition to a circular economy and resilient cities.

Meeting new people – and old friends

'We hope that the people you meet and the business you do while you are here will again help your organisation move forward.'

– from different parts of the world, face to face, is enriching on both business and personal levels and serves to remind us all that our market reach is – ultimately – down to us.

As we encourage global participation, we have further developed AquatechTV, offering a live interactive programme on the first day available to every professional in the world on laptop, tablet or smartphone.

We hope that the people you meet and the business you do while you are here will again help your organisation move forward.

We thank you for coming to Aquatech and helping make it another great show and we hope to welcome you back in 2017 and join our travels around the world!

The Aquatech Project Team

CELEBRATE THE 25th ANNIVERSARY OF AQUATECH AMSTERDAM
A voucher available at the entrance grants you coffee or tea and a piece of celebration cake at the InnovationLAB Social Hub in Hall 7 (07.550). Valid daily between 10:00 – 12:00 hours. It's our treat!



'As jury chairman, I am very proud that such an innovative company won.'
Cees Buisman

get rid of these brines is immense,' says Buisman.

Already proven in locations in North America and the Middle East, DyVaR uses evaporative and cyclonic technologies to separate out salts and other components, recovering almost all of the water and making it available for reuse. It combines use of polymer materials to combat corrosion with use of cyclones to solve scaling problems. 'As jury chairman, I am very proud that such an innovative company won,' added Buisman.

The winning technologies in the other categories were: PearlAqua, a world-first UV LED water disinfection system; AQS-SYS, an automated system for detecting when leaks develop in supply

“How many measurement systems are needed to simply and safely analyse drinking water?”

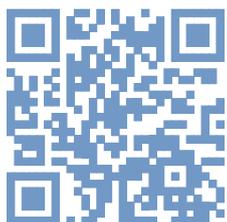
One. Type 8905 packs up to six sensors in one compact casing. This saves space, time and money – during installation, operation and maintenance. The online analysis system can be modularly fitted with miniaturized analysis cubes – during operations with hot swap functionality. Each cube registers itself in the system and transmits reliable measurement data even with minimal sample water flow.

Six parameters, one screen, one great overview. It doesn't get any better.



**Aquatech
Amsterdam**

3rd – 6th November
BOOTH 02.128



INSPIRING ANSWERS

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Aquatech Amsterdam 2015: giving you more for your visit

This 25th anniversary edition of Aquatech Amsterdam provides an opportunity to look back and recall the history and track record of this showcase event in the water calendar, but it is what visitors will get from their visit to the show that remains top priority. And with a whole range of new features on offer, you can get more than ever in 2015.

High on the list of the latest additions is the **Industrial User Experience**. At the special presentation area in Hall 7, industrial end-users will be sharing their experiences. Different sectors will be

two crucial factors – innovations that meet a need in the water market, coupled with investment to get these innovations up to scale and onto the market. With this very much in mind, the inaugural **Aquatech Venture Forum** to be held at the InnovationLAB on Thursday offers the chance for technology start-ups to pitch to potential partners and investors.

Look out also for the new **Storm Water Pavilion** in Hall 3, introduced in partnership with Storm Water Solutions Magazine in response to growing concerns around the impacts of climate



'We are already the most complete water platform, but we have been working to make it even more complete.'

Annette Bos,
Aquatech Domain Manager

covered each day, starting today with the oil & gas industry, followed by food & beverage, paper, mining, and chemicals. So come along and hear what the presenters have to say – and take the opportunity to mix with other visitors who share your interests.

Technology successes such as those on display around the show depend on

change. Keep an eye out too for **AquatechTV**, launched with PennWell, with live broadcasts taking place during the first day of the show.

'We are already the most complete water platform, but we have been working to make it even more complete,' comments Annette Bos, Aquatech Domain Manager.

Extra emphasis on innovation

With a track record over 25 editions, the many product and technology launches witnessed over the years at Aquatech means innovation has always been at the heart of the show. Now innovation is getting even greater prominence, thanks in particular to the addition of the new InnovationLAB, which features in Hall 7 at stand 07.550.

The winning and runner-up entries to this year's **Aquatech Innovation Award** form a centrepiece of the InnovationLAB (see right). With the opportunity to find out more about new technologies providing solutions to some of the key challenges of the sector, this is reason enough to get along.

The InnovationLAB also features the new **BlueTech Research Innovation Pavilion**. On display here are some of the most cutting-edge new offerings, and the inaugural pavilion is sure to be a draw for those looking for business opportunities to capitalise on emerging water markets around the world.

There's more, too – from the presentations at the **InnovationLAB ON STAGE** and the research briefings of the **InnovationLAB Experiences**, to the **InnovationLAB NEWSROOM** and the adjacent interactive plant tour of principal sponsor **Dow**. So make sure you pay a visit for insights into the latest innovations.



'At Aquatech we would like to meet the partners and the utilities that will lead us to the first installations in Europe.'

Zeev Efrat,
CEO, Aquarius Spectrum
Aquatech Innovation Award
Transport & Storage
category winner

2015 Aquatech Innovation Award results The winners and finalists

Overall winner: DyVaR O&G ZLD, Salttech BV

Gerard Schouten, CEO of Dutch company Salttech BV, which has won the top prize in this year's Aquatech Innovation Award, sums up his company's technology up as 'modular, cyclonic flash crystallisation technology'.

DyVaR treats highly saline waters and can be applied across a range of sectors, including the treatment of desalination brine, but a particular focus has been on providing a zero liquid discharge option in the oil and gas industry – hence the O&G ZLD part of the name of the winning entry. 'The oil and gas market is known for its high salinity and high pollutant containing waste streams. Our DyVaR technology is specifically suited for that kind of waste stream,' says Schouten.

Aquatech marks the start of much more visible activity by the company. 'We are primed and ready to go,' says Schouten. 'We have lined up a good team, we have a well-fed pipeline of projects, and of course we want to expand that, which is what are doing right now.'

Category: Waste water treatment

Winner: DyVaR O&G ZLD, Salttech BV (see above)

Finalists: Arvia ODC, Arvia Technology Ltd, and Keratox, ATG UV technology

Category: Water supply / water treatment

Winner: MPC-Buoy, LG Sonic BV

The MPC-Buoy of Dutch company LG Sonic uses ultrasound to control algal blooms found in lakes and drinking water reservoirs. The system takes measurements every ten minutes for parameters that include chlorophyll *a* and phycocyanin. Data is transmitted back to servers in the Netherlands, which can then adjust the ultrasound treatment provided by the buoys. The company recently integrated satellite remote sensing data to provide long-term monitoring of algal blooms.

LG Sonic CEO Yousef Yousef says the system is already being used by launch customers. 'At this moment we receive 250,000 measurements every day from all the buoys worldwide, and based on this data, we make our treatment smarter and smarter,' says Yousef, adding: 'Aquatech is a perfect place to show the system to the whole world with the case studies and the launching customers we have.'

Finalists: Grundfos BACMON Bacteria Monitoring, Grundfos A/S, and Metalmembranes, Metalmembranes.com BV



Category: Process control technology & Process automation

Winner: Hach Prognosys predictive diagnostic system, Hach

Maintenance of monitoring equipment has entered a new era with the Hach Prognosys predictive diagnostic system. This diagnostic software monitors the internal components of instruments and tracks service requirements. 'The number of people at wastewater and water plants has really declined, so they need to have good inside information on how the instrumentation is running,' comments Erwin Poutsma, Sales Manager with Hach. 'This software tool helps these people plan their maintenance programme, and it also gives them direct information on whether the instrumentation is producing reliable data that they can use within their control strategies.'

Finalists: Biotrack AquaMonitor, Biotrack, and FATHOM Meter Data Management, FATHOM Water Management LLC

Category: Not-yet-to-market

Winner: PearlAqua, Aquisense Technologies

Disinfection using UV-C light generated by LED semiconductors has been eagerly awaited for many years, with companies racing to get the technology to market. US company Aquisense Technologies is now launching its fully commercial PearlAqua product, integrating LEDs into a system with the controls and flow configuration that allow even low powered UV LEDs to provide up to a 6-log pathogen reduction.

According to Aquisense CEO Oliver Lawal, the company will initially focus on niche industrial markets such as medical devices and pharmaceutical manufacturing, but plans to scale up applications over time. 'We really timed our product development to coincide with Aquatech,' says Lawal. 'It is the first time there has ever been a product of this type shown,' he adds. 'We hope to meet distributors, and also some large OEM and channel partners in the various vertical niche markets.'

Finalist: CAGIS: Real-time Customer Alert GIS, Vitens



Category: Transport & storage

Winner: AQS-SYS, Aquarius Spectrum Ltd.

Israeli company Aquarius Spectrum's category-winning AQS-SYS leak detection system uses correlating sensors installed throughout the water supply network to detect leaks as they develop. The sensors are equipped for 3G cellular communication, sending data for automatic cloud-based signal processing. Users can then get up-to-date information on the condition of their pipelines and leakage from a GIS-based dashboard.

AQS-SYS has already been deployed in Jerusalem. The technology can detect holes as small as 1.5mm in diameter. The comprehensive picture of the network provided then allows a water utility to prioritize and schedule its maintenance activity. 'The whole concept is that enables a water utility to plan ahead, to understand the problem they have,' says Zeev Efrat, Aquarius Spectrum's CEO.

Finalist: SL-RAT Sewer Line Rapid Assessment Tool, InfoSense, Inc

AQUATECH DAILY NEWS

Aquatech Daily News is published by RAI Amsterdam every day during the show and is produced by Aqua Fluency Ltd. Any suggestions or input can be made to Keith Hayward, editor, who can be reached at: khayward@aquafuency.com

Amsterdam International Water Week: more to experience, more ways to connect

Thanks to Aquatech Amsterdam, visitors already get to experience the world's leading trade exhibition for process, drinking and waste water. But with the exhibition being part of the growing Amsterdam International Water Week, there is even more for visitors to experience and more ways for them to connect.

To start with there was yesterday's opening ceremony, with high profile speakers including Mrs Melanie Schultz van Haegen, Dutch Minister Infrastructure and the Environment,



Karmenu Vella, European Commissioner for Environment, Maritime Affairs and Fisheries, a speaker at yesterday's opening ceremony. (© European Union 2015 / Ansotte Etienne)

and Mr Karmenu Vella, European Commissioner for Environment, Maritime Affairs and Fisheries. In addition, Mr Eberhard van der Laan, Mayor of Amsterdam, presented the 2015 Sarphati Sanitation Awards, and the winners of the 2015 Aquatech

Innovation Award were announced too.

The Amsterdam IWW Conference is at the heart of the programme. Billed as the world's most cross-cutting conference for integrated water solutions, its twin themes this year are the growing focus by industry and water utilities on the circular economy, with its emphasis on recycling resources, and progress with creating resilient cities.

This morning's conference keynote speakers include Andrew Steer, President and CEO of World Resources Institute, and Peter Joo Hee Ng, Chief Executive of PUB, Singapore's national water agency, and keynote panel participants include Jan-Willem Vosmeer, of Heineken International, and Monica Scatasta, of the European Investment Bank.

A highlight of the conference programme is the three high-level leaders forums taking place tomorrow afternoon, one for each track of the conference: the Resilient Cities Leaders Forum, the Utility Leaders Forum, and the Industry Leaders Forum.

All visitors should take a look at the excursion programme. This provides an ideal opportunity to experience the 'living lab' that is water management in the Netherlands, with trips on Thursday and Friday covering drinking water, wastewater treatment, flood protection, and groundwater. On Thursday visitors can also participate free of charge in the international session of the Delta Congress, which offers a behind the scenes look at the world-leading Dutch delta management.

And on top of this, there is plenty going on throughout the week in the Young Water Professionals programme, to help support those in the early part of their water careers.

AquaStages and China business opportunities

AquaStage sessions launch with China focus

The AquaStage presentations taking place throughout the week at stand 02.226 in Hall 2 offer visitors a perfect opportunity to expand their knowledge – just turn up and listen to the presenters sharing their insights.

Today's programme features a special

focus on doing business in China, and visitors with an interest in the Chinese market should also get along to a meeting tomorrow hosted by **China Drinking Water Specialists** and co-organised by the Water Quality Association, 8:30 – 11:30 in L103-104.

The AquaStage programme

Tuesday, November 3*

11:45 – 12:30 Echologics BV
12:30 – 14:00 Doing Business in China
14:45 – 15:30 Solar powered mixers in lagoons
15:30 – 16:15 Scotland the Hydro Nation

Wednesday, November 4*

11:00 – 12:30 Seminar, European Desalination Society
12:30 – 13:15 Biopuremax

14:00 – 14:45 Kuriverter RC membrane rejuvenation

14:45 – 15:30 SABIC innovative plastics

15:30 – 16:45 Storm Water

Thursday, November 5*

11:00 – 12:30 No-Dig in the Delta

12:30 – 13:15 Doing business in Mexico / Aquatech Mexico 2016

13:30 – 15:30 Storm Water

15:30 – 17:00 Smart Water Networks

* Programme is subject to change

'We really timed our product development to coincide with Aquatech.'

Oliver Lawal, President & CEO
AquiSense Technologies
Aquatech Innovation Award
Not-yet-to-market category winner



AQUATECH INFORMATION

Telephone numbers

Emergencies / Alarm: +31 20 549 1234
RAI Hotel & Travel Service: +31 20 549 1927
Taxi: +31 20 777 7777

Opening hours

Tuesday, Wednesday, Thursday: 10.00 – 18.00 hrs
Friday: 10.00 – 17.00 hrs

Badges

For safety and security reasons it is mandatory to wear your badge at all times on the RAI premises. Please ensure that your badge is clearly visible.

Get the Aquatech App

For more information and the ultimate guidance at the show, please use our app. Search for 'Aquatech App'.

Wifi

Wifi is available free of charge on the show floor, but is not guaranteed.

Aquatech organisers

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Aquatech continues online all year round

All exhibitors are listed at aquatechtrade.com, the online catalogue for the international water industry. There, Products & Services is a browseable and searchable online catalogue, meaning you are just two clicks away from having access to the companies that provide the products or services you require. Click on the company name for general information on that company, including address and contact details, featured products and services, brands and company news, 365 days a year, 24/7.

Aquatech Daily News

The Daily News is published by RAI Amsterdam every day during the show. Any suggestions or input for the Daily News can be made to Keith Hayward, owner of Aqua Fluency Ltd and editor of the Daily News. He can be reached at khayward@aquafuency.com.

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The world's leading trade events for process, drinking and waste water

AQUATECH

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15 - 17 JUNE | 2016
AQUATECH CHINA

MEXICO CITY • MX
26 - 28 OCTOBER | 2016
AQUATECH MEXICO

TAS VEGAS (NV) • USA
2017
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