

Part of



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## 25 editions and getting stronger



Annette Bos, left, and Marieke Leenhouts

Looking back at Aquatech 2015 as it draws to a close today, it's already clear that all the signs are it will be an event to remember.

Aquatech Product Manager Marieke Leenhouts says: 'All the events went really well – the exhibitors are really positive, happy with the attendance and happy with the internationality of the attendance.'

Annette Bos, the Global Domain Manager of the Aquatech portfolio, adds: 'They were very happy with the contacts they had made, the conversations they had, and the business that they had done at the show.'

The Industrial User Experience proved incredibly popular with industrial users – this event was so packed every day that people were listening on headsets in the overflow room next door.

'The InnovationLAB also had a very lively dynamic, it created a lot of nice conversations on developing technology,' Bos says. 2015 proved an excellent year for innovation, she adds. 'We did a lot of experiments – the Industrial User Experience, the InnovationLAB, and the Aquatech Venture Forum.'

Leenhouts adds: 'We look back on an inspiring week. The interaction between the Amsterdam International Water Week conference and the trade show

floor was also very inspiring.'

Amsterdam International Water Week grew again this year, and from the great opening ceremony until the very end the rooms were packed full of delegates, enjoying lively debates and sessions.

New media also featured prominently, with AquatechTV and social media providing an extra dynamic to the show that will be developed for Aquatech 2017.

Bos and Leenhouts are already looking forward to the 2017 show, and to bringing some of the great initiatives from Aquatech 2015 to other Aquatech events.

Bos notes: 'In the end, we do this to move businesses forward, and as far as we have learned, we have succeeded in that.' Work on Aquatech 2017 has already begun, with 30 to 35% of the exhibitors having already re-booked their stands.

Today will be the final day to re-book and qualify for the special show offers, which will be worth investing in as 2017 looks set to be the best Aquatech yet, with focus areas that will include desalination, smart water, industrial water use and no-dig.

2016 will bring the new Aquatech Mexico, which is an exciting opportunity for exhibitors to reach a fast-growing market.

Aquatech China will also be a major event next year – an event that has been continuously growing and is now expanding very fast on the wastewater side because of the strong focus placed by the Chinese government on the issue.

So while one exciting Aquatech ends, new developments and new events wait in the wings, so there's plenty to look forward to in the coming years!

## Success for AIWW Conference

The mayor of Miami showed a porous rock to the audience: 'Look, this is Miami!' His city and 13 other cities that face water challenges had come together in the resilient cities leaders forum of the Amsterdam International Water Week conference.

1100 international delegates participated in 50 workshops and sessions of the conference. The focus of this edition was 'Integrated Solutions for a circular economy and resilient cities'. For this purpose, the AIWW brought together specialists from three different fields: Utilities, Industry and Resilient Cities.

### Diapers for plants

The many sessions and workshops focused on specific approaches and innovations. For example the 'Securing Water For Food Challenge', from USAID, and the governments of Sweden and the Netherlands. Dutch company Meta Meta was one of the winners with their 'diapers for plants'. Special pads contain the water in such a way that much less irrigation is needed. Meta Meta received much attention from Dutch national press and got over 20 leads in the first day after they won the prize.

### Leaders forums

The 2015 edition of the Amsterdam International Water Week aimed to accelerate the transition to a circular economy and resilient cities. That is why the organization invited leaders in the field of utilities, industry and



One of the many high quality panel sessions during the successful Amsterdam International Water Week Conference.

resilient cities. While industry leaders recognized that water is a number one risk for their companies and for investors, the utility leaders talked about a revolution taking place in recovery of nutrients and reuse of water. Utilities all over the world are making this transition, which can also be an attractive business case for cities. Geoff Gage of McKinsey said that 'biosludge can contain more gold than some commercial mines'. In the closing keynote of the conference, Lennart Silvis of the Netherlands Water Partnership concluded that the circular economy is technologically possible, but bottlenecks in legislation and insufficient investment have to be tackled.

More on the conference:  
[www.internationalwaterweek.com](http://www.internationalwaterweek.com)  
In-depth reports and reviews:  
[www.dutchwatersector.com](http://www.dutchwatersector.com)

## Excitement for Mexican market

Thursday's Aquastage celebrated the launch of an exciting new venture for the RAI Amsterdam – Aquatech Mexico.

Eduardo Islas, Mexico's trade and industry commissioner to the Netherlands, painted a picture of a dynamic country with a desire to be greener and more sustainable.

He stressed the huge diversity of Mexico, noting: 'Maybe you have done business with a guy from Monterrey, but a guy from Tabasco is completely different.'

Paul St Amour of EJ Krause said: 'We are very excited to partner with the RAI to bring Aquatech to Mexico.' He added: 'Mexico has a big interest in being more green and sustainable.'

Annette Bos, the global domain



Eduardo Islas

manager of the Aquatech portfolio, explained why exhibitors should come to the new show. 'Soon Mexico will be the eighth largest economy in the world, and it is such a large market for water technology.'

### AQUAMATCH

Thursday's Aquatech saw the fourth AquaMatch in full swing.

Event organiser Janine Kaya explains that the idea is 'to bring international entrepreneurs, universities and research institutions together to see if there is any possibility for international cooperation'.

She added: 'It's a great chance for them to meet with exhibitors and visitors and to have a platform where they can show their profiles and companies.'

Kaya says that the event went well, with 170 participants from over 25 countries and around 440 meetings arranged. 'It's important to have a matchmaking event at Aquatech,' she added.

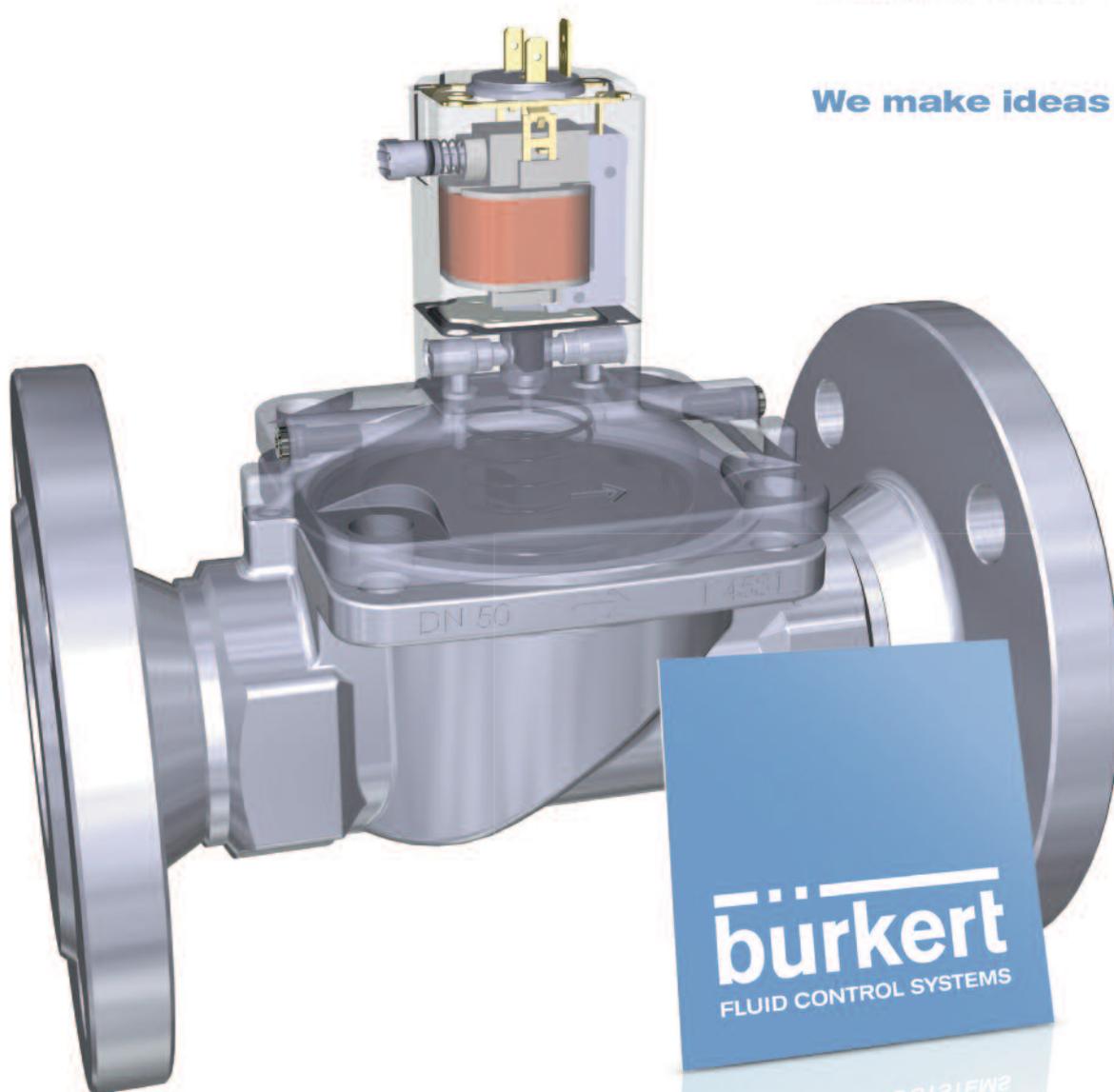




## For dirty work.

Contaminated or adhesive media, such as waste oil and fat, often cause blocked control bores. Our servo-assisted valve 5282 is the exception: The 2/2-way allrounder has no pressure compensation bore in the diaphragm in which foreign objects could get stuck. What's more, no medium flows through the pilot valve in open position, which is unique among servo-assisted valves with 2-way pilot control. Last but not least, additional safety is provided by the material concept: The main valve housing and return springs are made from high quality stainless steel or plastic. This way aggressive media can also be controlled safely. A neat piece of work!

**We make ideas flow.**



**VENTURE FORUM - A NEW ADDITION**

The Aquatech Venture Forum on Thursday started with high hopes and great energy, as eager startups pitched innovative technologies to an audience of interested prospective partners and investors.

The forum took the form of presentations in the morning – an intense 15 pitches, strictly limited to six-minute time slots, with four minutes for supplementary questions from the audience.

‘We saw a very high impact presentation of 15 start-ups in three hours, with some high potential investment opportunities that we are likely to see make an impact in the business world of water,’ commented Nityen Lal, of Icos Capital, who helped organise the event.



Nityen Lal

**Platform for industrial users**

The new Industrial User Experience feature that has been running all this week at Aquatech has been focusing on different sectors each day and today is the turn of an application area that spans the sectors: boiler feed water and cooling water.

One of the scheduled presentations is set to make the case for an innovative approach to steam generation based on experiences in the petrochemical industry. Roy van Lier, Chief Scientist with SABIC in the Netherlands will be presenting on the use of polyamide chemistry as a means of improving

steam generation, during the morning’s session running from 10:30-12:00 at stand 07:380. ‘What I am going to present is a unique application in the petrochemical industry,’ he comments.

Essentially the approach involves buying a formulated polyamide chemistry and using this to treat the boiler surfaces. This approach challenges traditional practices, and van Lier sees that the whole idea of the Industrial User Experience, of sharing end user experiences, is exactly what is needed in order for alternative ideas to take hold.

**THE BUSINESS OF WATER**

Aquatech thrives on the business opportunities that the water and related sectors offer – that is exactly why most visitors attend. And principal sponsor Dow Water & Process Solutions certainly shares this vision.

Global Business Director Snehal Desai notes that it is the industrial sector that generally shows the fastest uptake for solutions, but he points also to the dramatic increase in point-of-use and point-of-entry business. ‘It’s an important global trend in the trend towards decentralised water systems,’ he says.

Mature markets such as western Europe are today built around an established infrastructure base that means it is other regions that are potentially more exciting as far as the shift to decentralised solutions is concerned.

‘We are very bullish about the opportunities in Africa because in many ways it is a very challenged economy and location, yet it will have the benefit of not having the legacy built in, so that they can move to more sustainable solutions sooner,’ adds Desai.

**Aquatech Innovation Award finalist**

**Treatment system suited to organics destruction applications**

The new Arvia ODC process from UK company Arvia Technology, a finalist in this year’s Aquatech Innovation Award, combines use of an adsorbant to remove organic compounds from water with use of electrochemical regeneration of the adsorbant to destroy the organics in situ by oxidation.

‘The advantages of the technology are that you don’t have to replace your medium, you don’t have any chemicals used within the process, you get complete destruction of the organics, and the technology is modular and can be scaled to suit an application,’ explains CEO Mike Lodge.

Lodge explains that the company is

initially focusing in particular on industrial wastewater, and is targeting three application areas: destruction of micropollutants, including addressing problematic pollutants such as endocrine disrupters in the utility sector; generic COD removal as a polishing step following treatment by other technologies; and colour removal.

‘We have secured significant funding over the last four months to accelerate the deployment of the technology,’ says Lodge, adding: ‘We think there is an immense potential for the technology because we are fitting into a piece of the market that is difficult to address currently with existing technologies.’

**Innovations on show at Aquatech 2015**

**CTG’S DISSOLVED ORGANIC MATTER SOFTWARE**

Chelsea Technologies Group (CTG) has launched its new CDOM-Station and CDOM-Station Pro at Aquatech, providing real-time coloured dissolved organic matter assessment capabilities.

‘This week we are launching the CDOM system - a software tool for managing disinfection and coagulation control among other things, such as detecting low concentrations of bacteria coming in to water assets,’ said Justin Dunning, Sales Manager at CTG.

The CDOM station systems offered by CTG provide real-time, highly sensitive measurements, thereby allowing utility operation managers, process scientists and engineers to assess levels of dissolved organic matter in water systems across a wide variety of water environments.

**Aquatech Innovation Award finalist**

**CHEMICAL-FREE ADVANCED OXIDATION OPTION**

Established UV specialist atg UV Technology has extended its product range with the addition of a chemical-free advanced oxidation process that destroys organic compounds.

The new system, Keratox, a finalist in this year’s Aquatech Innovation Award, is being introduced with the forthcoming EU Priority Substances Directive

very much in mind, offering a means of removing micropollutants from wastewater discharges, as well as providing an option for drinking water treatment applications. Produced water treatment in the oil and gas sector is another of the application areas being targeted by the company, as well as organic carbon removal in ultrapure water applications such as boiler feed water and semiconductor production.

Keratox combines use of UV with a patented titanium dioxide catalyst sited within the UV reactor that is able to produce high concentrations of reactive hydroxyl radicals because of its crystalline structure. Standard low pressure amalgam UV lamps are used, with cartridges containing the catalyst located around these in specially designed parts. Use of titanium dioxide as a true catalyst makes it possible to carry out advanced oxidation without the use of chemicals such as ozone and hydrogen peroxide.

‘The launch of Keratox is a huge step and it has been very warmly received,’ comments Barry Hopton, the company’s Municipal Sales Manager. ‘We are very excited by this.’



**Aquatech Innovation Award finalist**

**NEW MEMBRANE METHODS USES METALS**

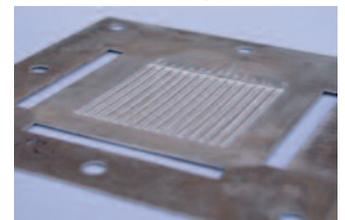
‘Metalmembranes is a completely new way of making membranes,’ comments Sybrand Metz, Chief Technology Officer of Dutch company Metalmembranes, a finalist in this year’s Aquatech Innovation Award.

The name of the technology comes from the fact that the production process involves taking a layer of metal such as aluminium or titanium and transforming one side of it into a ceramic layer. The remaining metal is then removed, leaving the porous ceramic layer behind. This process gives control over the pore size, which can be tuned to be from 0.5 micron down to less than 1nm. In addition, retaining the metal layer around the ceramic part provides a sealing layer.

Metz explains that in the short to medium term, the main applications of the membranes are likely to be as heating elements, overcoming scaling problems, and in diagnostic testing applications, such as the production of Elisa tests plates.

A longer term market is use of the membranes in high-end filtration applications, such as where there are higher temperatures, smaller pore size requirements, or high fouling rates, explains Metz.

A focus for the company at Aquatech is to find potential partners. ‘We prefer to partner with other parties that want to put our technology into their product and who then can sell it in the marketplace,’ says Metz.



**GRANULAR FILTERMEDIA OPTIONS**

Aqua-Techniek B.V. supplies natural, granular filtermedia for all kinds of water purification. The products anthracite, garnet and calcium carbonate are applied in a very wide field. Depending on the nature of the impurities to be removed, Aqua-Techniek B.V. may advise from case to case applications of filtersand, dolomite, activated carbon, zeolite or manganese dioxide, which also belong to their range of products. Visit Aqua-techniek Stand 01-126 and they can tell you all about it.

*‘We are delighted to have this recognition of our technology. There is huge interest, with a lot of people that have problems with high salinity brines that perfectly fit our technology. So it is a splendid combination of winning this award and being here.’*  
**Gerard Schouten, Salttech**  
 Aquatech Innovation Award  
 Overall Winner

**Aquatech Innovation Award finalist**

## Intelligent microscope brings speed to water sample scanning

The new Grundfos BACMON bacteria monitoring system from Grundfos, a finalist in this year's Aquatech Innovation Award, offers a rapid means of checking the total bacteria and particle concentration in flows, delivering the results in minutes and providing a means to link sensors and assess data across a site.

'BACMON is a fully automatic system that is in essence an intelligent microscope that works by scanning water samples and then, by advanced image recognition and signal processing, determining whether or not there are bacteria in the water,' comments Lars Spicker Olesen, Chief Innovation Manager, Emerging Water Technologies with Grundfos.

The system is based on use of a

patented 3D digital microscope. No concentration step is used. A test sample enters a replaceable flowcell and is characterized by analyzing images. Of course the company is well known for its pumping technology. 'This is a natural development – to ensure a stable water quality,' says Spicker.

Application areas include use as an early warning system for drinking water quality, in wastewater monitoring, and in process applications such as in the fish industry where knowledge of bacterial levels is beneficial.

'We know it works,' comments Spicker, adding that what this first international display at Aquatech offers is an opportunity to get a reaction from potential end-users on practical applications.

**Aquatech Innovation Award finalist**

## Rapid automated analysis of microorganisms

The new AquaMonitor system of Dutch company Biotrack, a finalist in this year's Aquatech Innovation Award, provides rapid automated field and inline analysis of bacteria and other microorganisms.

The system is an extension of Biotrack's AquaSense lab-based system. It uses Fluorescence In Situ Hybridization in combination with solid state filter cytometry to identify bacteria, providing monitoring and trending of

'The huge difference now is that AquaMonitor can sample automatically,' says Commercial Director Jürgen Tressel. 'Nobody needs to be in the field, and that's crucial. It's fast, and it's ideal for long term studies.'

Typical applications include environmental and drinking water applications, as well as use in other areas where, for example, testing is required outside of laboratory opening times. Tressel says the system can also be used on ships to



**'Nobody needs to be in the field, and that's crucial. It's fast, and it's ideal for long term studies.'**  
**Jürgen Tressel, Biotrack**  
**Aquatech Innovation Award finalist**

total bacteria or specific species, as well as wireless transmission of results. This combination means that the system has the ability to deliver results more rapidly than traditional laboratory-based methods, in addition to which analyses are carried out automatically.

monitor ballast water. While the company is focused on bacterial applications for AquaMonitor, the system can also be used, for example, to monitor parasites such as Cryptosporidium and Giardia.

According to Tressel, the system also incorporates a patented means of testing whether cells are alive or dead.

'With the quick results of AquaMonitor, you can act before problems occur,' adds Tressel.

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

**AQUATECH**

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### YWP SUCCESS

The busy schedule of events for young water professionals during Amsterdam International Water Week has been a big success, with more than 350 young professionals participating in the programme itself.

'We also have the most sustainable stand at the Aquatech fair, because we have biodegradable furniture and also our own drinking water tap,' adds YWP coordinator Twan Brinkhof.

Andrea Kralikova, the new YWP Ambassador continues: 'We are here talking water and talking sustainability. By showing that we can do things differently, we are also walking our talk.'

'I am very honoured that I was selected, and I am looking forward to working with all those curious, excited young people, who are full of energy,' adds Kralikova.

'I have seen some inspiration here,' adds Leah Pope, of the Water Youth Network. 'It is really nice to know that we are helping people network.'

Looking forward, Kralikova comments: 'We want to grow the programme. We want to make it more visible. We really want to brand it strongly.'



### 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**  
 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.

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**Aquatech continues online all year round**  
 All exhibitors are listed at [aquatechtrade.com](http://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**  
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