

# UV Industry News

## Atlantic Ultraviolet Corp.'s Vice President Celebrates 90th Birthday

Tom Dituro Sr. turned 90 years old in January and is one of the most experienced people in the ultraviolet industry. Dituro was born Jan. 10, 1928, and raised in Long Island City, Queens, New York. Dituro joined Atlantic Ultraviolet Company in 1950 as a field service technician and sheet metal mechanic. In 1963 he and a business partner purchased the struggling company, renaming it Atlantic Ultraviolet Corporation and expanded its development and manufacturing capabilities. Dituro was a major part of technological advancements in products and manufacturing. Even after six decades in the ultraviolet business, he still regularly reports to the factory. For more information, visit: <https://ultraviolet.com/>.



Tom Dituro Sr.

## JenAct Launches Marine Disinfection Technology

UV disinfection specialist JenAct Limited of Whitchurch, Hampshire, UK, is pleased to announce the launch of its product designed specifically for the leisure marine industry. Based on proven UV disinfection technology, BoatFresh is designed to minimize the possibility of mold and bacterial growth on marine craft whilst moored and unoccupied. Powered from main shore power, BoatFresh provides constant air circulation across the UV-C lamp, which neutralizes airborne mold, bacteria and fungi. BoatFresh is available from stock, directly from manufacturers JenAct. For more information, visit [www.boatfresh.co.uk](http://www.boatfresh.co.uk) or email [info@boatfresh.uk](mailto:info@boatfresh.uk).

## Light Progress and egoHealth Announce STET CUBE

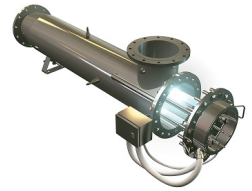
From the union of two highly specialized realities in the field of disinfection comes Stet Cube – the first desktop device for disinfecting the stethoscope. Specifically designed to ensure security and deep hygiene for patients, Stet Cube was conceived to be always close at hand for every professional using a stethoscope. Its lightness and limited footprint make it ready to use on the studio desk, in hospital carts equipment or hooked to a wall with its special wall-bracket. Stet Cube is patented, CE marked, recognized by the Ministry of Health as a medical device and registered within the FDA. For more information, visit [www.stetclean.com](http://www.stetclean.com).



## Optimized LPUV Disinfection System Reduces Costs

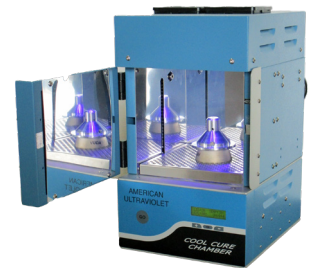
Berson & Aquionics launched a low-pressure UV disin-

fection system for the treatment of municipal, re-use and waste water. The AmaLine® UV range provides effective treatment while reducing lifecycle costs by being simple to maintain and extremely energy efficient. The AmaLine has been designed to simplify maintenance, which can be performed by a single operator and without requiring external lifting equipment. AmaLine uses LPHO (low pressure high output) amalgam lamp technology that provides variable output ballasts (50 to 100%). The product is available in the Americas through Aquionics and the rest of the world through Berson. For more information, visit [www.aquionics.com/main/uv-products](http://www.aquionics.com/main/uv-products).



## American Ultraviolet Introduces Cool Cure Chamber™

American Ultraviolet West introduced its newest UV LED Flood Curing System – the Cool Cure Chamber™ – to its family of UV LED curing products. The Cool Cure Chamber's UV output is completely adjustable with over 1.5W/cm<sup>2</sup> of uniform UV curing and over 15,000 hours of LED life. The system comes standard with 365nm LEDs but can mix and match with other wavelengths (i.e. 345nm, 385nm, 395nm, 405nm and 425nm). The Cool Cure Chamber utilizes UV LED technology to deliver a powerful and cost-effective curing chamber on the cutting edge of the industry. The system comes standard with a timer, constant ON or manual mode, as well as ON/OFF modes depending on process requirements. Larger chamber sizes are also available upon request. For more information, email [PhilSmith@auvco.com](mailto:PhilSmith@auvco.com), call 800.615.3726 or visit [www.americanultraviolet.com](http://www.americanultraviolet.com).



## UV-C LED Performance Enables New Applications

Phoseon Technology announced that utilizing its patented SLM™ technology and proprietary thermal management system achieves a breakthrough level of deep-UV irradiance targeted at disinfection and decontamination Life Science applications. Phoseon is the first to develop a 275nm UV LED disinfection system that surpasses 5 W/cm<sup>2</sup>. Phoseon's SLM technology offers faster analysis and operations and increased capabilities for disinfection and decontamination applications that require low wavelengths. High irradiance,



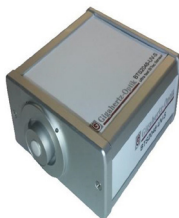
combined with appropriate wavelengths, targets specific bonds in DNA, RNA and proteins within microorganisms and biomolecules. This allows shorter inactivation times while improving overall efficacy of the disinfection. The high absolute irradiance of these new solutions enables high throughput processes in pharmaceutical, sequencing, air handling and manufacturing facilities. For more information, contact Marine Faucher at 503.619.2326 or email [info@phoseon.com](mailto:info@phoseon.com).

### Crystal IS Unveils Klaran® WD Series

Crystal IS announced the expansion of its Klaran® platform with the release of the WD series LEDs. Developed specifically for the price and performance needs of point-of-use (POU) water disinfection, the Klaran WD series breaks the \$0.25/mW price barrier required for mass production of UV-C LED-based water purification products. Klaran WD series are offered in power bins of 30 mW and higher and enable OEMs to address the rising global demand for water purification products as consumers take a more active role in ensuring drinking water quality. Klaran UV-C LEDs are produced on ultra-wide bandgap aluminum nitride substrate produced by Crystal IS. This substrate overcomes material challenges inherent with traditional sapphire-based devices and emits its full germicidal power from the top of the chip, allowing for a simple, low-cost design. The resulting UV-C LEDs offer high output at peak germicidal wavelengths (260-275 nm) and the ability to operate at high-drive currents for more effective disinfection. For more information, visit: [www.cisuvc.com/products/klaran](http://www.cisuvc.com/products/klaran).

### Gigahertz-Optik Set to Present at IUVA Conference

Gigahertz-Optik GmbH's compact array UV spectroradiometer technology will be presented at the IUVA UV LED Technologies & Application Conference in Berlin, Germany, from April 22-25, 2018. Internal stray light, the dominant and the limiting factor for accurate array spectroradiometer UV measurements, is physically reduced by means of an internal optical filter wheel. No other stray light reduction methods are necessary. The instrument's small footprint and optional software development kit (SDK) allows it to easily integrate into existing measurement systems. For more information, visit [www.gigahertz-optik.com](http://www.gigahertz-optik.com).



### Atlantium's Hydro-Optic™ UV Protects Against Invasive Mussels

The North Wind Group has selected Atlantium Technologies Ltd. to provide their Hydro-Optic™ (HOD) UV technology for non-chemical macro and micro biofouling control

at Hoover Dam. The presence of the quagga mussel in Lake Mead is a primary concern because of the threat to water delivery and power reliability. North Wind selected the Hydro-Optic UV technology as the preferred treatment to supplement operational and mechanical activities already in place at Hoover Dam. The HOD UV technology will help to minimize the risk of mussel fouling by preventing invasion and infestation. Delivery of 16 HOD UV systems took place in October 2017, and the installation was handled by North Wind. For more information, contact Dennis Bitter at 714.305.6111 or email [dennisb@atlantium.com](mailto:dennisb@atlantium.com).



From left, Ron Hofmann, IUVA secretary, and Oliver Lawal, IUVA president, present Natalie Hull, a student at CU Boulder, with a first-place award at the IUVA Americas Conference in late February.

### IUVA Americas Conference: Best Student Presentation Awards

The IUVA Americas Conference, held Feb. 26-28 in Redondo Beach, California, featured a number of excellent student presentations on a wide range of subjects. In an effort to promote and reward student involvement in IUVA activities, Best Student Presentation awards were given and included a cash prize of \$200 for first place and \$100 for second place. First place went to Natalie Hull (CU Boulder), who gave a talk on the inactivation of viruses when exposed to sequential UV LED and excimer lamps. Second place went to Gongde Chen (UC Riverside), who discussed a novel method of denitrification using the photolysis of formate (not pictured). ■