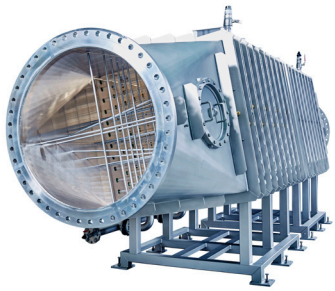
UV Industry News

DOWA to be Ready for Mass Production of Deep Ultraviolet LEDs – Dowa Electronics Materials Co., LTD, Tokyo, Japan, a subsidiary of Dowa Holdings Co., LTD., has developed a deep ultraviolet LED chip with a peak wavelength of 280 nm, output of 75 mW and dimensions of 1 mm x 1 mm. Since deep ultraviolet lights with a wavelength of 280 nm have a high-efficiency of disinfestation, replacing the conventional mercury lamps with these LEDs enables facilities to be smaller and mercury-free. With other advantages, such as power saving, this product is expected to find new smart applications. This new product may provide light source manufacturers with greater flexibility for selection of package formats, such as lamps and chip-on-board (COB).

TrojanUV to Supply UV for Ashbridges – TrojanUV, London, Ontario, has been selected as the UV supplier for the disinfection conversion and upgrade project at the Ashbridges Bay Wastewater Treatment Plant in Toronto, Ontario. UV will become the plant's main method of disinfection (replacing chlorine) and will provide broad-spectrum disinfection of a wide range of pathogens, including bacteria, viruses and protozoa. The design will consist of 12 channels, each containing two TrojanUVSigna banks of UV lamps. It is slated to be the largest TrojanUVSigna installation to date. For more information, visit www.trojanuv.com.

New UV LED System Semray® Revolutionizes Industrial Curing Processes – The new Semray® UV LED curing solution sets new standards in production flexibility and efficiency with its Plug & Play concept and powerful technologies. UV specialist Heraeus Noblelight, Hanau, Germany, recently launched a UV LED solution for industrial curing processes. The new UV LED system offers a Plug & Play concept for easy handling together with cooling systems and micro-optics that boost performance for optimal curing results. By minimizing stray light, the LED chip offers precise curing that is effective and efficient for a variety of applications. End users can achieve up to 30% faster curing times and cure at significantly higher working distances.



Xylem Awarded UV Treatment Contract – Xylem, Rye Brook, New York, a global water technology company, has secured contracts worth USD $4.8 million to supply state-of-the-art ultraviolet (UV) disinfection solutions to two major drinking water plants in the city of Columbus, Ohio. The energy-efficient UV technologies will be used to provide an additional treatment barrier for *Cryptosporidium* at the Dublin Road Water Plant (80 MGD plant) and Hap Cremean Water Plant (125 MGD plant) each providing safe, clean drinking water for Ohio residents.

ZED GmbH Launches Lamp Add-On for Optimizing Amalgam UV Lamps – Lamp dimming and fluctuation of water temperature can dramatically decrease the UV disinfection performance of UV systems. The UV output of low-pressure amalgam UV lamps is strongly dependent on temperature conditions. Small changes of environmental temperature could result in a drastic drop of UV output. The same effect can be noted if a lamp is operated in dimmed mode. The new electronic stabilization tool PPT (perfect performance tool) by ZED Ziegler Electronic Devices GmbH, Langewiesen, Germany, is able to compensate negative temperature influences. A lamp with PPT will produce the exact UV output for a wide range of water temperatures and particularly will increase performance in cold water. The UV output in dimmed mode is becoming much more predictable for the complete water temperature range. The PPT is directly mounted at the lamp. There is

no need for additional wiring or power source. For more details, contact info@z-e-d.com.

AquiSense Technologies Announces Certification to ISO 9001 – AquiSense Technologies, Erlanger, Kentucky, has been awarded the ISO 9001:2015 certification by the International Organization for Standardization. ISO 9001 places heavy emphasis on quality management system performance and ensures a company's quality management system is strictly aligned with customer expectations. In addition to the announcement, AquiSense's PearlAqua water disinfection platform has been microbiologically tested in accordance with US EPA drinking water guidelines and has received certification in 2016 to NSF/ANSI 61 & 372 for materials safety. AquiSense also complies with CE and RoHS standards for all its products.

Allanson Announces UV Ballasts – Allanson Lighting Technologies, Toronto, Ontario, has introduced its new line of 24VDC UV Ballasts that can be used for solar applications and remotely where access to electricity may be scarce. Allanson's new 24VDC UV Ballast is available in 60 Watt and 80 Watt, 800 mA specifications. Arising from a direct need from the end user, Allanson is able to provide unique applications to meet increasing demands in a market where specific solutions were not always available. For more information, visit www.allanson.com.

UV Systems Introduces New Company – Consulting M&A Business Development LLC. announces the formation of UV Systems Consulting, a Renton, Washington-based business specializing in UV systems, UV lamps, UV ballasts, new UV technology advice, traditional UVC vs. future UVC with LEDs, and marketing. A high level of expert knowledge can be crucial when new products need to be designed, planned, pretested and validated. R&D, marketing and technical staff invests time, money and resources during new product development cycles so efficiency of these resources and added value is crucial. For more information, see http://uvlampconsulting.com or contact Karl Platzer at platzer@uvlampconsulting.com.

Boston Electronics Updates Website – Boston Electronics, Brookline, Massachusetts, has introduced its new website. The updated site will be a valuable resource for application and product information for IR and UV detectors and sources, quantum cascade lasers, photon counting solutions, thermal imaging and instrumentation. For more information, visit www.boselec.com. ■

At the 2017 IUVA World Congress in September in Dubrovnik, Croatia, Oliver Lawal, president of IUVA, presented the biannual IUVA Achievement Awards. The awards committee included Jennifer Osgood, of CDM Smith; Jutta Eggers with DVGW; and Harold Wright, Carollo. More information will be presented in the Winter 2017 issue of *IUVA News*.

Best Research Paper for the period 2015-17
Sara Beck, University of Colorado; Harold Wright, Carollo; Thomas Hargy, Corona Consulting; Thomas Larason, National Institutes of Standards & Technology; and Karl Linden, University of Colorado. "Action Spectra for Validation of Pathogen Disinfection in Medium-Pressure Ultraviolet (UV) Systems."

Best Article in IUVA News for the period 2015-17
Adel Haji Malayeri and Madjid Mohseni, University of British Columbia; Bill Cairns, Trojan Technologies; and Jim Bolton, Bolton Photosciences, "Fluence (UV Dose) Required to Achieve Incremental Log Inactivation of Bacteria, Protozoa, Viruses and Algae."

Best Classic UV Paper
Keith Bircher, Calgon Carbon, and Harold Wright, Carollo, "Who Needs RED? An Empirical Method for Validating the Log-inactivation of a UV Reactor Thereby Eliminating the Need for RED and RED Bias."

Best Conference Paper for the period 2015-17
Gabriele Messina, University of Siena, "Novel UVC LED Approach for Disinfecting Contact Lenses."

UV Young Professional Award
Li Si, Peking University

Innovative Application of UV
Kumiko Oguma, The University of Tokyo

UV Light Award for Volunteer Recognition
Ron Hofmann, University of Toronto

Lifetime Achievement Award
Regina Sommer, Medical University of Vienna