



Newsletter

06 October 2015

In response to many requests from our subscribers for information on innovative water technologies we have created a special edition of our newsletter. In this issue, we are pleased to feature Aquisense, a company that delivers next generation disinfection solutions using a combination of patented technology and in-depth know-how.

Hope you enjoy reading details about this exciting company below.

Kind Regards,

Vishakha Rajput
COO The Water Network



The Water Network research team had the pleasure of interviewing Dr. Jennifer Pagan, CTO of Aquisense. She is an experienced technical leader with a proven track record in new product development, intellectual property development and project management. Dr. Pagan has done extensive research in LEDs, optoelectronics, disinfection, and micro-optic fabrication. Jennifer has over 15 years of product/process development, business acumen, micro fabrication, R&D, and Federal grants. Dr. Pagan is a well-known face in the world of UV LED product development.

Question: How did you decide to get involved in the creation of Aquisense? What were your motivations?

Answer: Access to clean water is a global problem, technology advancements such as those being made by Aquisense, create sustainable solutions.

Question: Aquisense ventures to create a novel 'chemical free water treatment' what are the negative consequences of the other treatment methods you look to replace?

Answer: I think one of our biggest advantages lies not in replacing other treatment methods but allowing ultraviolet disinfection to be used in applications where it is not. Being able to offer a mercury free water disinfection system with unlimited cycling capabilities and no warm-up time in a very small footprint, with lower lamp replacement intervals is very compelling.

Question: What are the clear advantages of using UV-C LEDs? Are they cost effective as well?

Answer: UV-C LEDs offer an entirely new set of options for a disinfection system, for example, UV-C LEDs reach their full output power in just 9 nanoseconds, and can be cycled on/off continuously without any adverse performance effects. This means UV-C LEDs are ideal for batch processing and can be turned off (saving energy and operating costs) in between use. The manufacturing capacity of UV-C LEDs has increased in the past 12 months dropping the price tenfold; in addition Aquisense uses a proprietary reactor design which has efficiency more than 20 times that of traditional mercury systems. This means we need fewer LEDs which has brought our costs down significantly.

[Read and watch detailed interview of Dr. Jennifer Pagan.](#)

Read details about [Aquisense](#).



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