



# IUVA Presidential Election

## Nominee Background Statements

On behalf of the IUVA Nominating Committee,  
please find background statements for our 2016 IUVA President-Elect candidates

### **Ernest R. Blatchley**

#### **Biography**

Ernest (Chip) R. Blatchley III is a Professor with a joint faculty appointment in the Lyles School of Civil Engineering and the Division of Environmental & Ecological Engineering at Purdue University. He received his B.S. in Civil (Environmental) Engineering from Purdue University, after which he worked as a consulting engineer for Howard, Needles, Tammen & Bergendoff in Indianapolis. He then entered graduate school at the University of California, Berkeley, from which he received his M.S. and Ph.D. degrees in Civil (Environmental) Engineering. His Ph.D. research addressed the atmospheric chemistry of air pollutants that result from shale oil development. After completion of his Ph.D. degree, he accepted a faculty position at Purdue University in 1988.

The focus of his research is physico/chemical processes of Environmental Engineering, with particular emphasis on photochemical reactors and disinfection in water treatment. In collaboration with researchers from a wide range of scientific disciplines, the Blatchley group has made important contributions to the development of contemporary photochemical reactor theory, including the introduction of the concept of the UV dose distribution, as well as the development of numerical and experimental methods for its estimation and measurement. Important contributions have also been made in the context of many UV applications, including reactor design, reactor validation, disinfection (water, wastewater, and reuse applications), swimming pool water treatment, solar UV disinfection, the chlorine/UV process, ballast water treatment, and UV disinfection of indoor air.

Within IUVA, he currently serves on the Board and the Program Committee for the 2016 World Congress. He was a member of the Program Committee for the UV Research Frontiers Conference held in Leeuwarden, The Netherlands in May 2015.

### **Motivation for Candidacy**

IUVA was formed to serve as a forum for discussion and dissemination of information pertaining to the application of UV radiation. As it has matured, IUVA has assumed a position of leadership relating to UV-based applications and has expanded its influence considerably. The progress that has been made by IUVA since 1999 is attributable to the hard work of its membership and the vision of the organization's leadership. The influence of IUVA is largely attributable to the establishment of its web site, the establishment and circulation of *IUVA News*, and the wide range of successful conferences that have been held on regional, national, and international scales.

I joined IUVA because I saw it as an organization that has interests that are closely related to mine, and because I see it as an organization that has the opportunity and potential to influence the use of UV-based technologies. I believe IUVA is well-positioned to increase its roles in these areas. In particular, I see three important growth opportunities for IUVA.

- First, IUVA should seek to expand its membership. Important membership targets include students (graduate and undergraduate) at colleges and universities. Student members represent the future of the organization and the professions that relate to it. Beyond the measures that have already been implemented, opportunities to expand student membership include engagement of students in the IUVA Board, in committee activities, and in organization of IUVA events.
- Second, IUVA should seek to expand its geographic reach. Important opportunities for expansion exist in Asia, South America, and Africa. Tremendous economic growth is projected for all three of these continents in the near future. UV-based technologies have the potential to play important roles in this growth, as related to existing applications including water and air treatment. Because the industrial and municipal infrastructure systems in these continents are quite different than those in North America, Europe, and Oceania, these areas may also provide opportunities to explore new applications of UV-based technologies. Geographic expansion of IUVA will depend on efforts to reach out to industrial and governmental organizations, and to engage them in IUVA activities. IUVA should also consider expanding its range of regional activities and conferences on these three continents.
- Third, IUVA should seek to expand its role in development of guidance and regulations. Because of its membership and activities, IUVA is well-positioned to lead the development of regulations and policy that relate to UV-based applications. As an example, important guidance documents for application of UV have been developed by Federal and Regional organizations in the U.S. IUVA members played important roles in the development of these documents, but IUVA itself had no role to play in their development. These documents have served important purposes in the industries that relate to treatment technologies; however, as knowledge base related to UV-based applications improves, opportunities for development of rational, contemporary regulations also emerge. UV also has important roles to play in a number of emerging

markets, including ballast water treatment, indoor air treatment, and swimming pool (recreational water) settings. Again, IUVA members have played important roles in advancement of the knowledge bases related to each of these applications. In collaboration with relevant regional, national, and/or international organizations, IUVA is well-positioned to assume a leadership role in the organization and dissemination of guidance and regulations that relate to each of them.

## **Oliver Lawal**

Oliver is coming up to his 20<sup>th</sup> year anniversary working UV technology. As the recent founder of AquiSense Technologies, he is able to execute his passion for chemical-free water treatment using Ultraviolet-LEDs.

He previously served as President of Aquionics Inc., one of the global leaders in conventional UV water treatment technology. Prior to that he held a number of executive engineering and research positions at Wedeco in England, France, New Zealand and Germany, before moving full time to the US in 2005. Oliver holds two engineering degrees from Manchester University in the United Kingdom.



He has served the IUVA in a number of positions, starting 2004 on the Manufacturing Council, later chairing that committee. He has been an active member of the Board of Directors since 2009, serving on the Nominating Committee and on the Executive Operating Committee in the position of Treasurer since 2013. He also serves on the Board of Confluence, an Ohio Valley water innovation cluster. He has been widely published on UV topics and an early supporter in the practical application of UV-LED's for water treatment.

### **Vision Statement for IUVA**

When I first enter the “UV business” in the mid 1990’s there was no such thing as the International Ultraviolet Association, however, once founded I immediately saw the value of such an organization. Ours is still a young technology not widely understood by most people, but Ultraviolet technology is an increasingly important tool in solving the environmental and industrial challenges we face globally. We will continue to see increasing urbanization, aging populations, water scarcity, together with both water and air quality issues. UV will not single handedly solve all problems, but will lend a hand in solving many problems.

I have not aspired to serve as President of this organization, however, two events have led me to accept this nomination. Firstly, having served in the Executive Operating Committee in the position of Treasurer, through a time of particular uncertainty, it has helped me understand how critical strong leadership is to the organization. Secondly, the simple act of being nominated for this position. Understanding that some of my peers see me as being able to add value through continued service is both humbling and inspiring.

The vision statement of the IUVA states that we will “position IUVA as the leading authority on the use of Ultraviolet Technology”. I believe we are there. Over 15 years as an organization

sees us as *the* leading authority on the use of Ultraviolet Technology. My vision for the IUVA is to maintain and grow that leading position globally. As the IUVA vision statement continues, it is clear that we need to manage our activities in education, industry, research and public policy sectors worldwide. Our regional and World Congress events are unique and positive, however, to remain relevant and effective we need to extend beyond these to develop products from our work. We have had some success in developing protocols and position papers for the industry; though there is still lots more we can do. One challenge is mobilizing our membership to volunteer. I will seek to inspire our Committee Chairs, Board and general membership to get involved and take ownership in the future directions of our organization.

I have always looked for opportunities to provide a positive influence to the activities of the IUVA. Often putting personal and business positions aside to serve a greater goal. Whether I have the honor to serve the organization in the position of President or not, I will continue to spend time furthering the vision of the IUVA in making the use of Ultraviolet Technology a leading technology for public health and environmental applications.

## **Jon C McClean**

### **Biography**

I have a degree in Physics from Imperial College, London, and also an MBA degree. I have worked in UV disinfection and photolysis since 1986 in progressively more senior roles.

- Hanovia Ltd, UK / Halma PLC (1986-1994): Various sales roles.
- Thames Water (1994-1999) : Products and Services HQ Group staff role
- Hanovia Ltd / Halma PLC (1999-2005) Managing Director, Hanovia Ltd. Won Queens Award for Innovation, several patents granted.
- Aquionics Inc / Halma PLC (2005-2008) President: Moved to USA to run Aquionics Inc
- ETS LLC / Shareholder & President (2008-present). Business sold to Neptune Benson in 2012

Married, 3 children. Naturalized US citizen. (Dual National). Live in Beaver Dam, WI

### **Other interests**

Yachtsman: current Etchells World Champion.

Fusee clocks and Jaguar / Aston Martin cars.

Spending time unwinding in the West Indies.

### **Motivation**

I have served continuously as a Director of the IUVA since inception. I have a very successful track record within the UV industry, and enjoy excellent relationships with both the supply side and the demand side of the industry.

Our challenge remains threefold: relevancy, cherishing our history whilst making progress, and critically setting out a clear and inclusive direction for the IUVA. I would relish the challenge.