

Alfred University alumnus who 'reinvented lighting' to deliver annual McMahon Lecture

11/02/17



John Edmond

Dr. John Edmond, a 1983 graduate of Alfred University with a B.S. degree summa cum laude in ceramic engineering, will deliver the annual John F. McMahon Memorial Lecture at the Inamori School of Engineering at Alfred University, at 11:20 a.m. Thursday, Nov. 16, in Holmes Auditorium, Harder Hall, on the University campus. The lecture is open to the public, free of charge.

A co-founder of Cree, Inc., a leader in solid-state lighting, Edmond will deliver a lecture entitled “Reinventing Lighting.”

“With the advances in LED (light emitting diode) lighting over the past several years, solid-state lighting in the marketplace has grown significantly,” said Edmond in his lecture abstract. “This includes outdoor full-color displays, street and parking deck lighting, indoor lighting and hand-held devices. In each application, there is an optimization between the LED chips, the components they are encapsulated into and the lighting systems made from these components.”

In his presentation, he said, he will discuss several aspects of the lighting system, including chip design, the chip interaction with phosphors, and their incorporation in various component types. System optimization with respect to electrical and optical characteristics, such as voltage, color temperature, color rendering index, and luminous efficiency will also be discussed. Other key aspects of what matters for the growth of the solid-state lighting market going forward will also be presented.

Following graduation from Alfred University, Edmond was awarded the Office of Naval Research Fellowship for graduate schools studies. He earned his PhD degree in materials science from North Carolina State University and then founded Cree, Inc., in July 1987. Since its founding, Edmond has worked on the development and production of blue, green and white LEDs.

Today, his research is focused on advancing the performance of LEDs to enable the next generation of high efficiency solid-state lighting solutions. He has 156 issued and 13 pending patents in the United States, with an additional 257

issued and 29 pending foreign patents in these fields of research.

In 2007, Edmond earned a place on Business 2.0&s “50 Who Matter Now” list. The distinction placed him alongside business celebrities and leaders such as the late Steve Jobs, founder and chief executive officer of Apple, and the chiefs of Amazon, Cisco and Google. In 2012, he received the Distinguished Engineering Alumnus Award from NC State. In 2014, he received the Charlotte Business Journal Energy Leadership Award.

Edmond has been a member of the Alfred University Board of Trustees since 2008.

He is originally from the Wayland-Cohocton area in Steuben County in New York.

The John F. McMahon Lecture Award is presented annually to an outstanding ceramic engineer. The award was created by alumni in honor of the late John F. McMahon, an alumnus, a professor and finally, dean of what is now the Inamori School of Engineering.