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MicroLEDs and OLEDs for Non-Display Applications

The majority of applications for organic light emitting diodes (OLEDs) and micro light-emitting diodes (μ LEDs) have achieved their goal as displays once light is emitted. There are a variety of applications, however, in which the emitted light can further be used to probe or sense. In this talk, I will highlight a number of recent non-display applications for μ LEDs before looking forward to other possibilities in bio sensing and electronic applications in the future.

Biography

Ioannis (John) Kymissis is the Kenneth Brayer Professor of Electrical Engineering at Columbia University. John graduated with his SB, M.Eng., and Ph.D. degrees from MIT. His M.Eng. thesis was performed as a co-op at the IBM TJ Watson Research Lab on organic thin film transistors, and his Ph.D. was obtained in the Microsystems Technology Lab at MIT working on field emission displays. After graduation he spent three years as a post-doc in MIT's Laboratory for Organic Optics and Electronics working on a variety of organic electronic devices and as a consulting engineer for QDVision (since acquired by Samsung). He joined the faculty at Columbia University in Electrical Engineering in 2006 as an assistant professor. John has won a number of awards for his work, including the NSF CAREER award, the IEEE EDS Paul Rappaport award, the Voda phone Americas Foundation Wireless Innovation Award, the MIT Clean Energy Prize, and a Verizon Powerful Answers award. He served a term as the editor in chief of the Journal of the Society for Information Display, is a fellow of the SID, serves as the SID treasurer, and was the general chair for the 2014 Device Research Conference.



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