

The Waterloo Institute for Nanotechnology

Presents

OLED Lighting

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OLED (organic light-emitting diode) is a light-emitting diode (LED), which emits light in response to an electric current. An OLED display works without a backlight, which offers several advantages over liquid crystal display (LCD) and make it possible to produce thinner and lighter displays. Research into OLED materials (including organic, organometallic and polymers), devices and related technologies has been highly invested in industry. First O-Lite Inc. is the pioneer along with LG Chemicals in the world to commercialize OLED lighting panel and related products. The company has invented a series of internal lighting extraction materials with world-recorded efficacy of 117lm/w. The talk will focus on the current status and future perspectives of OLED lighting, with the emphasis on the challenges and developments in light extraction technology and the commercialization of OLED lighting panels and related products.