

WINNER OF THE BEN STURGEON AWARD 2010

The Ben Sturgeon Award for 2010 was awarded to Dr. Michael Weaver, Director of PHOLED™ Engineering and Development at Universal Display Corporation, a company developing organic light emitting device (OLED) technology.

Mike graduated from Sheffield University with a first class degree in Physics in 1993 and continued his studies at Sheffield obtaining a Ph.D. in Physics in 1996. It was during his Ph.D. that Mike first started to work in the field of displays with a thesis entitled 'Electroluminescence in Conjugated Polymers'.

From 1996-2000, Mike worked for Sharp Laboratories of Europe. As a member of Sharp's organic electroluminescence team, his principal field of research was in small molecule OLED displays. Mike and his colleagues fabricated Sharp's first OLED display demonstrator.

Mike joined Universal Display Corporation in Ewing, New Jersey, USA in 2000. Whilst at UDC, Mike has led several major projects. He led the team that demonstrated the world's first video rate displays on a flexible plastic substrates. Subsequently, Mike's work has largely focused on improving the lifetime and efficiency of phosphorescent OLEDs (PHOLEDs). In 2003, this work led directly to the commercialization of PHOLEDs with the launch of commercial passive matrix PHOLED cell phone displays by Pioneer Corporation. In 2006, AU Optronics launched the BenQ Siemans S88 mobile phone, featuring the world's first commercial phosphorescent AMOLED display, utilizing technology developed by Mike and his team. In 2010, Samsung Mobile Displays estimate that they will produce over 45 million cell phone displays incorporating PHOLED technology. To date, Mike has 27 granted OLED patents to protect technology, in addition to 25 published peer-review papers and over 75 technical papers.



Dr Michael Weaver

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