

# Lighting Energy- Powering Light II

## Photovoltaic and LED lighting solutions

### University of Bath, Thursday 12 May 2011

The technologies of light are set to have a huge impact on the green economy. Photovoltaic solar panels are set to become a viable supplement to electricity generation. Whilst solid state lighting with LEDs can drastically reduce the electricity required to light our homes and businesses.

LED and PV technologies have much in common, both are based on semiconductors, both operate at low voltage, both need high efficiency, both require initial investment with long return, both require new approaches for building integration and both will see huge growth in the next few years.

Deployed separately both PV & LEDs can have significant economic and environmental impact. However, with so many similarities, the greatest gains in the future may be found from deploying both technologies together. This event gives the perspectives of those who have pioneered combining PV and LEDs in domestic and industrial applications as well as an overview of the latest forecasts for LED and PV growth.

The stellar growth rates predicted for PV and LEDs are driven by financial incentives and improved aesthetics at least as much as they are by environmental benefit. Additional presentations will cover the impact of feed-in-tariffs on PV deployment in the UK, a view on what architectural designers are looking for from these products and possible future technology developments.

This event is for anyone advising on/ working with renewable energy solutions, those looking to understand developments in PV and LED lighting, how they compare, and the prospects for them being used together. Given the

#### Agenda (onsite badge pickup from 9:30am)

- 10:00 Solid State Lighting, the lighting designer perspective, *Giulio Antonutto, ARUP***
- 10:30 PV & LEDs in domestic environments *James McKenzie, PhotonStar LED***
- 11:00 Coffee**
- 11:30 Combining PV & LEDs in industrial environments *Phil Shadbolt, Zeta Group***
- 12:00 Feed in tariffs a year in. *Lee Richards, Regen South West***
- 12:20 Solar mapping analysis for PV applications *Francesco Anselmo ARUP***
- 12:40 Smart DC networks for LED & Electronics, *Simon Daniel, Moixa Technoloav***
- 13:00 Lunch**
- 13:50 Round table- What would it take to light a supermarket with PV & LEDs combined**
- 14:30 Prospects for higher efficiency PV & LEDs *Duncan Allsop, Uni of Bath***
- 15:00 Market forecasts for PV and LEDs. *John Lincoln SEPNET / Mike Hatcher Optics.org***
- 15:25 The iNET, Wrap-up, Follow-up**
- 15:30 Tours of University of Bath facilities**

potential, an interactive roundtable discussion will seek to identify the issues with combining PV and LEDs on a larger scale, the road blocks, when such combined deployments can be expected and what their impact would be.

The **University of Bath** have kindly agreed to host this meeting in Lecture Theatre 2.1, Building 3E Claverton Campus, Bath, BA2 7AY. Directions available at [www.bath.ac.uk/maps](http://www.bath.ac.uk/maps). Advanced registration is required.

A meeting by **SEPNET** in collaboration with the **ESP KTN & iNets South West Microelectronics** funded by **ERDF**  
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#### Registration

Please complete the registration form at [www.regonline.co.uk/lightingenergy](http://www.regonline.co.uk/lightingenergy). The cost to attend this meeting is £25+VAT due to the generous support of our sponsors.

