



## European Cluster in Optical Interconnects Workshop

Wednesday 25<sup>th</sup> September 2013

12:00 – 17:30

Following the successful launch of the European Cluster in Optical Interconnects (ECO) cluster in April 2013, we would like to formally invite you to join the ECO Workshop on **Wednesday 25<sup>th</sup> September 2013** at the ExCeL London Exhibition and Convention Centre, co-located with the ECOC 2013 conference and exhibition.

### ECO Consortium Objectives

- Create a global forum of stakeholders and beneficiaries of optical interconnect technology spanning a broad application space from chip-level, board-level and rack-level optical interconnect to system integration
- Foster collaboration between European industry and research consortia and global organisations to leverage world-leading expertise in different areas of the optical interconnect eco-system and accelerate wide-spread commercial transition to embedded optical interconnect
- Promote global visibility and sustainability of European research and establish synergies between European and global research and development into optical interconnect
- Collectively promote the commercial exploitation of disruptive photonics technologies and thus drive rapid growth in the EU economy in the emerging field of optical datacom and computercom

### Workshop Aims

Motivated by recent breakthroughs and emerging technologies in short reach optical interconnect and the evolution of data centre architectures, this workshop aims to highlight the latest achievements across the entire spectrum of system embedded optical interconnects including electro-optical PCB, optical waveguide fabrication, connectors, components, devices and systems that are placing photonics among the key enabling technologies of datacom and computercom evolution. Moreover, this Workshop aims to focus on the practical application perspectives of this technology as well as the remaining challenges to be tackled on the way to full deployment within future datacom systems.

# Agenda

## Session 1

Time	Talk	Speaker
12:00 – 12:30	<b>Introduction to European Cluster for Optical Interconnects</b>	<b>Dimitris Apostolopoulos</b> , National Technical University of Athens (Greece)
12:30 – 13:00	<b>Overview and Roadmap for European projects in Optical Interconnects</b>	<b>Nikos Pleros</b> , Aristotle University of Thessaloniki / Center for Research and Technology Hellas (Greece)
13:00 – 13:30	<b>40 Gb/s Regenerative Optical Bus based on Multimode Polymeric Board Level Interconnects</b>	<b>Richard Penty</b> , University of Cambridge (UK)
13:30 – 14:00	<b>Optoelectronics Packaging for Efficient Chip-to-Waveguide Coupling</b>	<b>Geert van Steenberge</b> , University of Ghent (Belgium)

## Coffee Break

## Session 2

14:30 – 15:00	<b>System Embedded Photonic Interconnect Technologies for Data Centre Applications</b>	<b>Richard Pitwon</b> , Xyratex Technology Ltd (UK)
15:00 – 15:30	<b>Graded-index Core Polymer Optical Waveguides for High-bandwidth-density On-board Interconnect</b>	<b>Takaaki Ishigure</b> , Keio University (Japan)
15:30 – 16:00	<b>Parallel Optics as an Enabler for &gt;1Tb/s Optical Interconnects</b>	<b>Kobi Hasharoni</b> , Compass EOS (Israel)
16:00 – 16:30	<b>High Speed Practical Polymer Optical Waveguides Demonstrated in 24 ch x 16 Gbps Optical Interconnection Module for Computercom System</b>	<b>Makoto Fujiwara</b> , Sumitomo Bakelite (Japan)

## Round Table Discussion

16:30 – 16:40	<b>Industry Associations' Role in Accelerating Technology Development</b>	<b>Carlos Lee</b> , European Photonics Industry Consortium (EPIC)
16:40 – 17:40	<b>How do we collectively drive commercial adoption of embedded photonics technologies in datacom and computercom platforms?</b>	<b>All participants</b>

## EUROPEAN CLUSTER FOR OPTICAL INTERCONNECTS WORKSHOP

Wednesday 25<sup>th</sup> September 2013, 12:00 – 17:30

**Meeting Room: SG21 & SG22**

[ExCeL London Exhibition and Convention Centre](#)

1 Western Gateway, Royal Victoria Dock  
London E16 1XL  
United Kingdom

## Access to Workshop and Directions

The Workshop is free, however attendees will still need to pre-register for ECOC2013 and collect their badges from the exhibition registration area before security will allow them access to the meeting room.

### To pre-register online:

Visit <http://www1.registerby.net.com/Shows/ecoc13/>

### To go to ECOC registration area and pick up badges:

Enter the East Entrance of the Excel (this is the ECOC side of the venue) and head straight towards the exhibition hall where the registration points will be located. Exhibition registration is free of charge.

### To go to the Workshop Meeting Room SG21 and SG22:

Walk back out of the main entrance, turn right and walk along the width of the venue (Directional signage will be provided here), turning right again to walk parallel with the River Thames about half way down the length of the venue

