



# Photonics & Organic Electronics Newsletter

May 2011



<http://cordis.europa.eu/photonics>

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## Changes in the Photonics Unit

We would like to inform you of the following personnel changes in the Photonics Unit which are already in operation:

- **John Magan** has been nominated Deputy Head of Unit in INFISO Unit G2 "Micro and Nano Systems". John was with the Photonics Unit since its creation (January 2007). His role in the development and growth of the unit was instrumental. We wish him every success in his new role.
- **Ronan Burgess** has been nominated the new Deputy Head of the Photonics Unit.
- **Michel Hordies** has joined the Unit. He worked with INFISO Unit G1 "Nanoelectronics". Michel has now become the new Head of Sector of the Photonics Unit.
- **Philippe Reynaert** has joined the Unit. He came from INFISO Unit G3 "Embedded Systems". Philippe will be responsible for the further development of OLAE (organic and large area electronics).
- **Markus Korn** has moved to INFISO Unit G3 "Embedded Systems".

We wish them all every success in the continuation of their career.

## ICT proposers day: 19-20 May 2011, Budapest



This is the second major biennial event organised by DG INFISO after the ICT 2010 Event promoting ICT in general and networking in particular.

The event will be dedicated to networking and partnership building for ICT Calls 8, 9 and Factories of the Future (FoF) offering more than one billion Euros of EU funding.



The event will be structured around thematic sessions on the Objectives of the ICT Calls 8 and 9.

**The Photonics Unit will be involved in two sessions** both taking place on **May 19<sup>th</sup>**: Session on **Objective 3.5 Core Photonic Technologies** (14:45 – 16:15), and session on the OLAE-related **Objective 7.2 Manufacturing solutions for new ICT products** (16:30 – 18:00).

Potential proposers could present their proposal ideas, meet with us and get in contact with other ICT stakeholders to form project consortia. Registration for the event is free of charge. For more details see <http://ec.europa.eu/ictproposersday>.

### CIP Call on SSL Pilot Actions closes on 1 June

The call for proposals under the objective 1.1: *Innovative lighting systems based on Solid State Lighting (SSL)* of the Competitiveness and Innovation framework Programme (CIP) was published on March 1 and closes on June 1, 2011.

The aim of this call is to fund large scale pilot actions to demonstrate the benefits of using solid state lighting solutions. More details are provided at: [http://cordis.europa.eu/fp7/ict/photonics/calls\\_en.html](http://cordis.europa.eu/fp7/ict/photonics/calls_en.html) where you will find an extract of the CIP workprogramme, a presentation on this objective, and a dedicated set of FAQs.

A Pre-proposal Checks service will be available up until 15 May. The Check Form is available at [http://ec.europa.eu/information\\_society/activities/ict\\_psp/documents/pre-proposal\\_check\\_call5.rtf](http://ec.europa.eu/information_society/activities/ict_psp/documents/pre-proposal_check_call5.rtf) and should be submitted at the following e-mail address: [SSL@ec.europa.eu](mailto:SSL@ec.europa.eu).

### Evaluation of ICT Call 7

The ICT call 7 was closed on 21 January. The photonics unit was involved mainly in the following call objectives:

- Objective 3.5 called for *Disruptive photonics technologies* and for *Coordination and support actions* in Photonics;
- Objective 3.6 on "Flexible, Organic and Large Area Electronics and Photonics".

Under the photonics Objective 3.5, 67 proposals were submitted requesting 154 M€ of EU funding (against 25 M€ available). 12 proposals (8 STREPs and 4 CSAs) have been invited for negotiation in view of an EC Contract. Five of the retained proposals address technologies for lasers and optical interconnects.

Under the OLAE Objective 3.6, 40 proposals were submitted requesting 175 M€ of EU funding (against 50 M€ available). 10 proposals have been invited for negotiation in view of an EC Contract (3 IPs, 5 STREPs, 1 CSA and 1 ERA-NET-plus action). The following topics are particularly well covered by the retained IPs and STREPs: Organic photovoltaics, flexible/ foil based organic and printed electronics, and integrated smart systems including smart textiles.

In addition, one additional proposal was invited for negotiation under objective 11.3 supporting the extension of on-going projects to strengthen cooperation across the enlarged European Union.

The new projects should normally start in late summer / early autumn of 2011. More information will be provided in our next Newsletter.

## Green Paper on Solid State Lighting (SSL)

Solid State Lighting (LED and OLED) is the lighting technology of the future and is becoming increasingly available on the market. It offers many advantages from ultra-high energy efficiency to long-lifetimes, higher quality of light and improved visual performance, easy controllability, and ultimately well-being and decreased total lifecycle costs for the user.

However, in Europe there is hesitancy in its wider market uptake for a number of reasons: it has a high up-front purchasing cost; there is a lack of awareness and user experience; standards are missing and there is a lack of quality certification and there are concerns that the technology may be insufficiently mature and may give some health concerns.

To break the impasse and develop a strategy for accelerating the wider deployment of Solid State Lighting in Europe, DG Information Society and Media, in collaboration with other DGs, and in consultation with European associations representing key stakeholders (lighting industry, designers and installers, consumers, cities, ...) is currently preparing a **Green Paper on SSL** in the framework of the [Digital Agenda for Europe](#).

For more information on the objectives of the Green Paper on SSL see [here](#)

Information on the latest status of the initiative is accessible from: [http://cordis.europa.eu/fp7/ict/photonics/digitalagenda-and-ssl\\_en.html](http://cordis.europa.eu/fp7/ict/photonics/digitalagenda-and-ssl_en.html)

## Study results on photonics leverage effects

A study on the "leverage effect of photonics technologies on the European economy" was recently completed. It was carried out by TNO (NL) in collaboration with the Photonics and Plastic Electronics Knowledge Transfer Network (UK) and Technologia (UK).

The study concludes that the European photonics industry, with a share of 21% of the global photonics market and annual growth rates of around 10%, lies at the basis of significant business opportunities and value creation as well as highly qualified jobs in Europe. Six main photonics technology value chains, 8 major photonics-enabled industries and 11 final markets were analysed.

The study estimates that today already **about 20-30% of the European economy and 10% of the European workforce depend on photonics as a key enabling technology**. The study also identifies the challenges and threats faced by European photonics industry over the next 10 years through global competition, particularly from the Far East countries, the shrinking supply of qualified researchers, engineers and technicians as a direct consequence of the ageing society, and a lack of volume manufacturing in Europe, which could weaken the link between photonics R&D and industry in the longer term. The study concludes that an enhanced policy focus on sustainability and greening would positively support innovation in the photonics industry and enabled markets.

The final report of the study is available on

[http://cordis.europa.eu/fp7/ict/photonics/docs/reports/photonicsleveragestudy\\_en.pdf](http://cordis.europa.eu/fp7/ict/photonics/docs/reports/photonicsleveragestudy_en.pdf).

## New study on "Green photonics" is launched

A study on "**Photonics technologies & markets for a low carbon economy**" was launched in December 2010 for 12 months. It is being carried out by Optimat (UK) in collaboration with InGaN Research (UK), National Physical Laboratory (UK), TWI (UK) and CIP (UK).

The goal of the study is to analyse Europe's market positioning in green photonics particularly relevant for building a future low-carbon economy and to analyse its potential for further development. Areas under analysis include Photovoltaics, Energy efficient lighting and displays, Energy efficient communications, Advanced sensors and instrumentations and Clean manufacturing. The study will focus on promising new photonics technologies for the coming five years and the barriers which these technologies will face on the way to obtaining significant market shares for Europe.

## High-Level Expert Group on Key Enabling Technologies presents its mid-term report



On the 9<sup>th</sup> February 2011 the High-Level Expert Group on Key Enabling Technologies (KET) presented its mid-term report to Commissioners Antonio Tajani, Neelie Kroes and Máire Geoghegan-Quinn. The report assesses the competitive situation of the different Key Enabling Technologies in the EU with respect to other regions and highlights key challenges in their industrial deployment along the value chain.

During the next phase of the group's mandate the sectoral analyses will be brought together to form the basis for horizontal policy recommendations. During this process, specific workshops on key policy issues will be organised with stakeholders and experts. The final report with its recommendations will be presented to the Commission at the end of June.

More information on the work of the KET group and a copy of the mid-term report can be found here [http://ec.europa.eu/enterprise/hlg\\_kets.htm](http://ec.europa.eu/enterprise/hlg_kets.htm).

## Next OLAE Concertation meeting in July, Thessaloniki, Greece



NANOTEX 2011  
**ISFOE11**

4<sup>th</sup> International Symposium on Flexible Organic Electronics  
10-13 July 2011, Thessaloniki, Greece

The Organic and Large Area Electronics (OLAE) Concertation meeting 2011 will be held on 12<sup>th</sup> and 13<sup>th</sup> July in Thessaloniki (Greece). It is an integral part of the 4<sup>th</sup> International Symposium on Flexible Organic Electronics [ISFOE11](#). A dedicated Poster session on FP7-ICT funded OLAE projects will complete the event.

The aim of this event is to provide FP7 OLAE projects the stage to present their latest achievements to a broad audience and to provide the opportunity to meet with representatives of other OLAE projects and with the broader OLAE constituency.

## G5 Scientific staff

**Thomas Skordas**  
*Head of Unit*

**Ronan Burgess**  
*Deputy Head of Unit*

**Michel Hordies**  
*Head of Sector*

**Scientific officers**  
**Christoph Helmrath**  
**Michael Hohenbichler**  
**Cristobal Irazoqui**  
**Philippe Reynaert**  
**Bart Van Caenegem**  
**Rüdiger Von der Heyden**  
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## Newsletter Editor

**Cristobal Irazoqui**

For any comments or contributions on future issues of this newsletter and to subscribe/unsubscribe send an e-mail to the [editor](#) (Subject: PHOTONICS Newsletter)

## Project News

### ACCESS ICT

Are you interested to exploit the results of your ICT project and do you want to attract investors to grow your ICT business?

The EU project "ACCESS ICT" might be able to help you. Please have a look at the brief brochure [http://www.access-ict.com/site/images/stories/access-ict\\_brochure.pdf](http://www.access-ict.com/site/images/stories/access-ict_brochure.pdf) or more generally on [www.access-ict.com](http://www.access-ict.com).

## Diary of Events

### ICT Proposers' Day 2011

19-20 May 2011- Budapest, Hungary

**LASER World of Photonics** conference & Exhibition including SPIE/OSA European **Conference on Biomedical Optics 2011**  
22 - 26 May 2011  
SPIE **Optical Metrology** 22 - 26 May 2011

**LOPE-C 2011** – Large-area, Organic and Printed Electronics Convention

28-30 June 2011, Frankfurt, Germany

**NANOTEX 2011** International Exhibition & Conferences on Nanotechnologies & Organic Electronics

9-16 July 2011, Thessaloniki, Greece