

# EURO-FOS NEWSLETTER

◆ Issue 1

◆ July 2008

## ► Newsflashes

*Euro-Fos Project Launched on 1st of May 2008*

*1st successful Kick-off meeting in Chania, Crete held on 22-23 May 2008*

*Euro-Fos goes online* → [www.euro-fos.eu](http://www.euro-fos.eu)

*Join Euro-Fos as an industrial affiliate!*

## ► Our Centers of Excellence

The Centers of Excellence (CEs) are clusters of research groups with excellence in a specific topic within the photonics subsystems/systems research area. The ultimate aim of the CE is the creation of an environment where the coherent mixture of researchers and the seamless integration of research groups in a European scale are taking place. The EURO-FOS CEs involve photonic subsystems and systems applicable to longhaul terabit networks, metro/core dynamic reconfigurable networks and gigabit-capable broadband access networks.

Research on photonic subsystems/systems is carried out within the following CEs :

- CE1: Digital Optical Transmission Systems
- CE2: Optical Sources and Amplification Systems
- CE3: High-Speed Optical Network Subsystems
- CE4: Next-Generation Optical Access Subsystems

## ► About Euro-fos

Project EURO-FOS (Pan-European Photonics Task Force: Integrating Europe's Expertise on Photonic Subsystems) is a Network of Excellence project, co-funded by the European Commission through the 7th Framework Programme, Information & Communication Technologies (ICT). The project runs from May-08 to April-12 and targets the creation of a powerful Pan-European cluster of research groups specializing in the research and development of photonic subsystems and systems applicable to telecommunications.



## ► Kick-off meeting

The Euro-Fos kick-off meeting was held in Chania Crete on 22-23 May 2008. All consortium members actively participated in the meeting. Through small working groups, partners exchanged ideas and the first joint experimental activities were scheduled!



## ► Joint Experimental Activities (JEA)

Currently-running JEAs

EURO-FOS is an experimentally-oriented project that involves top European systems groups with advanced laboratory infrastructures and proven track record in the design, development and performance characterization of novel photonic sub-systems. The joint experiments represent an efficient mechanism fully exploiting Europe's "people, labs, devices" concept of EURO-FOS in a collective and efficient way creating economies of scale and maximizing potential impact on this research area.

**JEA 1.1 Fast-tuneable laser-based OLT for WDM-PONs**

**JEA 1.2 Impairment monitoring subsystems in WDM-PON access networks**

**JEA 1.3 Study of hybrid optical and electronically generated OFDM with electronic equalisation on optical networking testbed**

**JEA 1.4 OTDM Network Nodes for Dynamic Circuit Switching**

**JEA 1.5 Round Robin Study of Dynamic Properties of Q-Dot and Q-Dash SOAs**

**JEA 1.6 Advanced network functionalities at 320 Gb/s: All-optical contention resolution using space switches and ultrafast wavelength converters**

**JEA 1.7 Advanced Radio-over-fiber (RoF) subsystems for Gb/s wireless links**

**JEA 1.8 Performance of higher order modulation formats with coherent detection and electronic distortion equalization.**

## ► Photonics Industry

A primary target of EURO-FOS is to bridge the gap between academia and industry in Europe created by the shut-down or downsizing of major industrial R&D laboratories.

Europe's highly innovative small-to-medium enterprises (SMEs) are expected to significantly gain from this initiative, through the "Pan-European Lab Creation" that aims at providing R&D and test & measurement services to SMEs that find it increasingly difficult to allocate the required R&D expenditure for basic research and expensive testing facilities.

## ► Join as an affiliate

- Provide guidance on sub-systems and their requirements in terms of specifications & performance.
- Collaborate through meetings and regular workshops collocated with major conferences
- Perform experiments using research prototypes
- Arrange PhD industrial placements

Test your prototypes in our labs!

## ► Industrial Affiliates

supporting the project

Alcatel-Lucent Germany  
Alcatel-Lucent France  
Nokia-Siemens Networks Germany  
Nokia-Siemens Networks Portugal  
Siemens IT Solutions and Services PSE Austria  
ADVA Optical Networking  
CISCO Photonics  
ERICSSON Research  
JDS Uniphase  
Alcatel III-V Labs  
XTERA Communications  
OPTIUM  
PicoSolve  
NorthLight AB - SFO Technologies  
PHOTLINE Technologies  
Center for Integrated Photonics - CIP  
DAS Photonics  
Time-Bandwidth Products  
EXELITE Innovations  
Ignis Photonyx AS  
Intracom Telecom S.A.  
OneFive  
France Telecom  
FASTWEB  
Tellabs  
British Telecom  
Portugal Telecom