

Dear colleagues,

After the e-Photon/ONe audit, Plenary Meeting and the e-Photon/ONe⁺ preparation period, activities have resumed in the Network of Excellence! An overview of these activities is presented in this Newsletter. It seems that this is going to be a busy summer – the News and Events sections are full of announcements. E-Photon/One is going to organise an ECOC booth this year so please spread the news.

In this Newsletter you can find the latest info, deadlines and announcements - just in case you haven't checked the website <http://www.e-photon-one.org/>

Hope you enjoy the second issue - the editorial team

Deliverables and Reports

D3.3: VD3 Technical Report (VD3)

A first draft of D. 3.3 is now available by request. Please send an email to Dieter Jaeger: d.jaeger@oe.uni-duisburg.de

D4.3: VD4 Technical Report (VD4)

A first draft of D. 4.3 should be prepared ASAP. So please send your input to Mads L. Nielsen: mln@com.dtu.dk.

D5.3: VD5 Technical Report (VD5)

Deliverable D.5.3 is now available by request. Please send an email to Pierluigi Poggiolini: Pierluigi.Poggiolini@polito.it

D7.2: Intermediate JP1 report on planned activities and first research results (JP1)

D7.2 is ready. For more info, please contact Alex Stavdas: astavdas@mail.ntua.gr.

D9.2 Intermediate JP3 report on planned activities and first research results (JP3)

D. 9.2 is under preparation. Please send any input to Mario Pickavet: mario.pickavet@intec.ugent.be

e-Photon/ONe Events

18th -20th April 2005, Roma- Italy
Conference: 1st Conference on Next

Generation Internet Networks Traffic Engineering

In the framework of the NGI 2005 conference FUB-ISCOM presented their test-bed based on the QoS measurements on a GMPLS network, carried out in the framework of e-Photon/ONe (see News) www.eurongi.org/ngi2005

27th -28th June 2005, Brussels- Belgium **Workshop: Workshop on Key Issues and Grand Challenges in Optical Networking**

The Workshop is jointly organized and sponsored by e-Photon/ONe, NSF and COST291. In this Workshop challenges and future trends in optical networking will be discussed and the guidelines for NSF and EC will be outlined.

5th -7th July 2005, London – UK **Conference: 10th European Conference on Networks & Optical Communications (NOC)**

The NOC is co-sponsored by e-Photon/ONe. Deadline for abstracts is the 29th of April. www.ee.ucl.ac.uk/NOC2005

30th August– 1st September 2005, Cesenatico **and 2nd September 2005, Pisa - Italy** **II Summer School e-Photon/ONe:** **“Optical switching technologies”**

This summer school is organised by the e-Photon/ONe Network of Excellence. e-Photon/ONe focuses on optical networks and the organization of schools for PhD student and junior researchers is one of the main tasks of the project. This school is the third, after the first summer school dedicated to “Optical access technologies” and the winter school on “Optical core network technologies”. The second summer school will address the issue of optical switching. The aim is to present basic concepts as well as state of the art research results in “Optical switching technologies”.

List of topics

Innovative devices for optical switching, Wavelength routing, Optical burst and packet switching, All-optical switch architectures, Optical switching experiments and test-beds.

Paper submission deadline: June 18, 2005

Notification of acceptance: July 15, 2005

Final manuscript due: July 23, 2005

Registration deadline: July 30, 2005

For more info please contact Franco Callegati (fcallegrati@deis.unibo.it) or check the website

<http://e1.unibo.it/summerschool>

e-Photon/ONE News

e-Photon/ONE Demonstrator at NGI Conference (WP13)

Fondazione Ugo Bordononi (FUB) and Istituto Superiore delle Tecnologie e dell'Informazione (ISCOM) implemented this test-bed to show an access-core network; the demonstrator that is shown in the picture, was developed in the framework of the Intern.it, a project supported by Italian Communication Ministry and the FUB, with the partial contribution of e-Photon/ONE. The network consists of a fiber ring with fiber trunks 50 km long (Roma-Pomezia link) and core routers with GBE interfaces, supporting GMPLS architecture. Broadband systems based on 10/100 Mb/s Ethernet and on WI-FI access points are connected to the routers in order to investigate the Quality of Service using different access techniques. In the core part, novel optical devices will be included, like All Optical Wavelength Converters based on fiber nonlinearities and All Optical 3R regenerators.

A traffic generator-analyzer connected to the optical ring overloads it in order to emulate various network conditions; it is possible to set the data rate sent by the operator, labeling it with the DiffServ approach for the QoS management.



Class-of-service can be configured to provide multiple service classes; as far as the applications are concerned both videoconference and videostreaming services were tested.



IST e-Photon/ONE at ECOC 2005 Exhibition booth (WP14)

WP 14 would like to announce that there is going to be an e-Photon/ONE exhibition booth at ECOC 2005. Please use this booth to promote the e-Photon/ONE activities. For more information please contact Tanya Politi: tpoliti@telecom.ntua.gr

Photonic News

ECOC Deadline

The European Conference on Optical Communication takes place in Glasgow and the deadline for paper submission is 29th of April 2005: <http://conferences.iee.org/ecoc05/>

ICTON 2005 Call for papers-Extended deadline

The 7th. International Conference on Transparent Optical Networks) will be held in Barcelona next July 3-7. Please note that the deadline for paper submission has been extended to May 15th: <http://www.itl.waw.pl/icton>

Group of the month: University of Essex (<http://www.essex.ac.uk>)

The University of Essex (UESSEX) currently has approximately 9100 students (25% postgraduate), covering the areas of Science & Technology, Humanities and Social Science. The University was founded in 1960, with the Department of Electronic Systems Engineering, being one of the first Departments. The Department has 4 main research Groups: Photonics, Multimedia Architectures, RF Engineering, Audio & Video networking. The Photonics Network Laboratories at UESSEX are concerned with all aspects of photonic network infrastructure from optical routing in trans-national core telecommunications networks through to novel photonics devices and high-speed optical switching. Relevant research is focused on the study and design of photonic networks, WDM reconfigurable networks, optical packet/burst switched-networks and supporting subsystems such as wavelength converters and optical switch fabrics. On the European front UESSEX has been involved in all European Programmes since 1991. Current projects are IST-DAVID and IST-OPTIMIST. Additionally, a number of national funded projects such as WASPNET, OCUN, OPSNET, OPORON involved the group.