



Dear colleagues,

The second year of the Network of Excellence is coming to an end with lots of final reports and deliverables but the continuation of the project is already under way. On behalf of the Project Office, we announce that the new project e-Photon/ONE+ starts officially on March the 1<sup>st</sup>, and that e-Photon/ONE is extended until the end of February with no extra budget however; As always you can find more at: <http://www.e-photon-one.org/>.

We would like to convey Greetings for the Season from the Management team and the Editorial Team

Hope you enjoy the issue

With our best season's greeting for this Xmas!

## Requests for Inputs Deliverables and Reports

### WP14 "Final plan for using and disseminating knowledge"

The deadline for the submission of this deliverable is mid January so please send any input to Mike O'Mahony: [mikej@essex.ac.uk](mailto:mikej@essex.ac.uk). It would be very helpful to provide information about: how you have used e-Photon/ONE support in applying for further grants or in supporting national activities and whether you found helpful networking with other colleagues

### QMR7: Quarterly Management Report

Deadline for submission of contributions to the report of second quarter of the second year (August 1<sup>st</sup> up to October 31<sup>st</sup>) was: 15<sup>th</sup> of December. If somebody has misplaced the contribution send it now to [e1-office@mail.tlc.polito.it](mailto:e1-office@mail.tlc.polito.it)

## e-Photon/ONE Presentations

### MUPBED-NOBEL Workshop 2005: OPTICAL TRANSPORT NETWORKS FOR NEXT GENERATION BROADBAND SERVICES "Optical networking according to the e-Photon/ONE view"

F Neri, Politecnico di Torino, Italy. You can find the presentation at: <http://www.e-photon-one.org/> under the Presentations section.

To access all the presentations of the workshop, please go to the link: [http://mupbed-nobel\\_workshop.ccaba.upc.edu](http://mupbed-nobel_workshop.ccaba.upc.edu)

### BROADBAND EUROPE 2006

e-Photon/ONE contributed into the second BBEurope conferences with several papers and presentations. Here are some indicative contributions:

#### **Parallel Session T01A - Broadband Access (DSL, FTTH, CABLE, PLC)**

##### **T01A.03 Availability Calculation of FTTH Architecture**

Cholda P., Kantor M., Wajda K. - Department of Telecommunications, AGH University of Science and Technology (PL)

#### **Parallel Session T03A - Towards All-Optical**

##### **T03A.02 Issues in Optical Burst-Switching**

Javier Aracil – UAMadrid, et al.

##### **T03A.04 Asymptotic performance of MLSE IMDD optical receivers over dispersive fibers**

Pierluigi Poggiolini - PolITO

#### **Parallel Session T04A - Core Network**

##### **T04A.01 Experimenting with Commercial Router MPLS Recovery Schemes**

Miroslaw Kantor (2), K. Wajda (2), F. Cugini (1), F. Paolucci (1), Luca Valcarengi (1), Piero Castoldi (1) - (1) S.Anna, Pisa; (2) AGH

##### **T04A.05 Towards GMPLS-based fast recovery between BGP ASes**

David Larrabeiti (1), Tibor Cinkler(2), Ricardo Romeral(1), Manuel Urueña(1) - (1) UC3Madrid; (2) BUTE

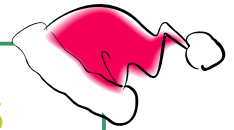
#### **Parallel Session W03A - Infrastructure**

##### **W03A.05 Optical Virtual Private Network (OPVN) provisioning in hybrid WDM core networks**

Maurice Gagnaire, Elias DOUMITH (GET/ENST)

#### **Parallel Session W02B - Wireless BB**

**W01B.05 Broadband Wireless over Fibre Access**  
Alwyn Seeds, UCL



### e-Photon/ONE website

#### **e-Photon/ONE Website Content Management Tool- for NoE partners only**

Although much updated the website still requires input. Please make a final effort to update your documents. Note that that final reporting and final e-Photon/ONE review will be based on the information available on the website!

### e-Photon/One VoIP communication system

The implementation of a VoIP communication system to be used inside e-Photon/ONE has been completed. The system exploits open source software running on off-the-shelf PCs and is based on the SIP signalling protocols working side-by-side with a software PABX. Users may access the system using any communication software supporting the SIP signalling. The system allows point-to-point voice communications and tele-conferencing among a group of users. Both functions have been experimented for quiet a while and proved to work well. In particular the meeting on November 25<sup>th</sup>, about the e-Photon/ONE web site, was a tele-meeting held with this tool and connecting users located at the Politecnico of Torino, at the University of Bologna at the National Technical University of Athens, also with Enrica Conrotto connected through ADSL from London. In spite of the very heterogeneous internetworking environment and of the distance of the users the tele-conference worked well and lasted for more than an hour without experiencing breakouts. On the basis of the experiments held up to now the system appears to be reliable and ready to be open to the whole community. A major hardware upgrade, that should guarantee that the system may handle a large number of calls at once, is undergoing in these days and will be completed before Christmas.

In the internal section of the e-Photon/ONE web site a section devoted to documentation about this system has already been created. Here are posted the instructions to set up the client software and general information about the system as well as the contacts to the administrators of the service. All partners are invited to start using this system and provide feedbacks about its effectiveness as a cooperative working tool.

### e-Photon/ONE Final Plenary Meeting

The Management Team would like to invite you all at the Plenary Meeting (the final of e-Photon/ONE) in Rome, 19-20 of January 2006 –for details on the meeting place and venue please check out the link below.

The tentative agenda is the following:

First day:

- Introduction and project status update
- Presentations from WP1-5 (Virtual Departments) - press conference
- Lunch
- Presentations from WP7-10 (Joint projects)
- Presentations from WP11-15

Second day:

- Administrative issues
- e-Photon/ONE+ presentation
- open discussion
- Lunch
- possibly SC, JPAC, QAC meetings in parallel with the above
- AOB

Please register your participation at the following website:

[http://www.e-photon-one.org/ephotonone/servlet/Photon.Generar?seccio=1\\_2\\_10\\_2\\_1](http://www.e-photon-one.org/ephotonone/servlet/Photon.Generar?seccio=1_2_10_2_1)

The WP leaders are required to send their presentations to the project office by **January, the 13<sup>th</sup>**

### Group of the month [http: Department of Information Technology \(INTEC\) of Ghent University \(www.ugent.be\)](http://www.ugent.be)

From the Department of Information Technology (INTEC) of Ghent University, two research groups are involved in e-Photon/ONE: the Broadband Communication Networks (IBCN) group and the Photonics group. The IBCN-group was established in 1992, and currently it counts 45 collaborators (including 6 professors and 4 postdocs). The group has participated in numerous ACTS and IST projects (ACTS: Horizon, Open, Photon, Mephisto, Panel, Tobasco, Ithaci, Prisma; IST: Optimist, Tequila, Harmonics, David, Lion, Stolas, Scampi, Nexway) taking the lead in some of these projects. The IBCN group is also strongly involved in research with local industry (Alcatel, Siemens, Barco, Belgacom, ...). The IBCN group takes part in national and Flemish research programs (taking in many cases the lead in these projects, e.g. information technology, optical networking, mobile multimedia, ...). The research has resulted in about 250 publications in international journals or conference proceedings. The IBCN group is also largely responsible for the education in networking and software engineering in the faculty of engineering at Ghent University. The photonics group has been doing research on active and passive photonic component and optical fiber systems for more than 30 years and counts about 30 people. The group has been and is participating in numerous European and national projects and in the past has been coordinating projects such as ACTS-BLISS, ACTS-ACTUAL, IST-NEWTON, IST-ISOLASER, IST-IO. Currently it is participating in and coordinating a number of IST-projects and is coordinating the Network of Excellence ePIXnet on Photon Integrated Components. From 2006, the group will also be coordinating an international master in photonics under the Erasmus Mundus program.

