Next generation
Optical networks for
Broadband European Leadership

IST – NOBEL 2 Newsletter - No 4, March 2008

SPECIAL ISSUE
NOBEL 2 Demonstration

In this Issue:

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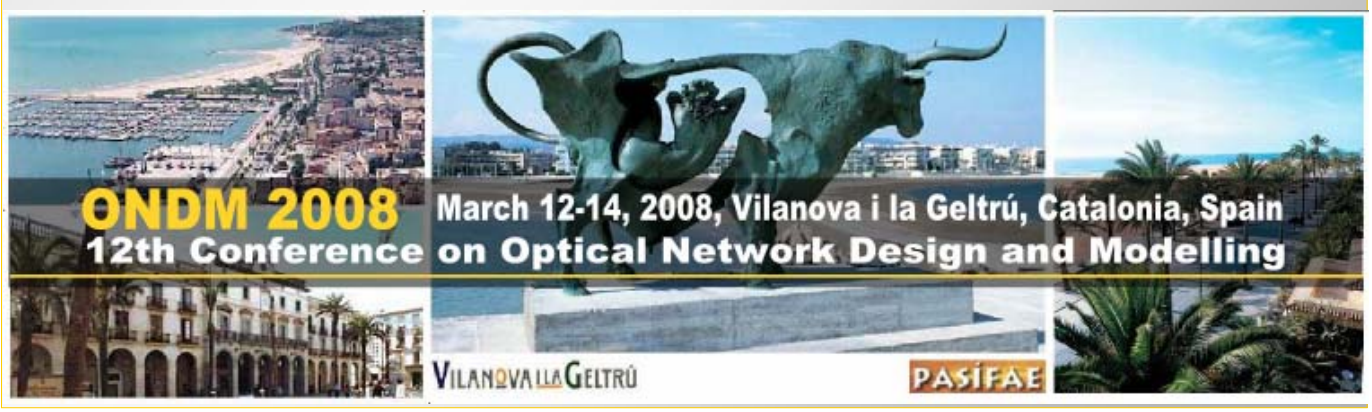
1. ONDM 2008

ONDM 2008 conference (http://www.ondm2008.cat/) took place in Vilanova i la Geltrú, Catalonia, Spain, on March 12-14, 2008.

The Conference program (http://www.ondm2008.cat/pdf/Tech-Prog-ONDM08.pdf) included 24 regular papers, 6 invited papers, a panel discussion titled "Is optical multilayer networking feasible?", and two demonstrations showing the results of IST Projects NOBEL 2 and Phosphorus.

NOBEL 2 has contributed to the Conference with a live network demonstration, 2 Invited papers, and 3 regular papers. The NOBEL 2 demonstration is summarized in the following page.

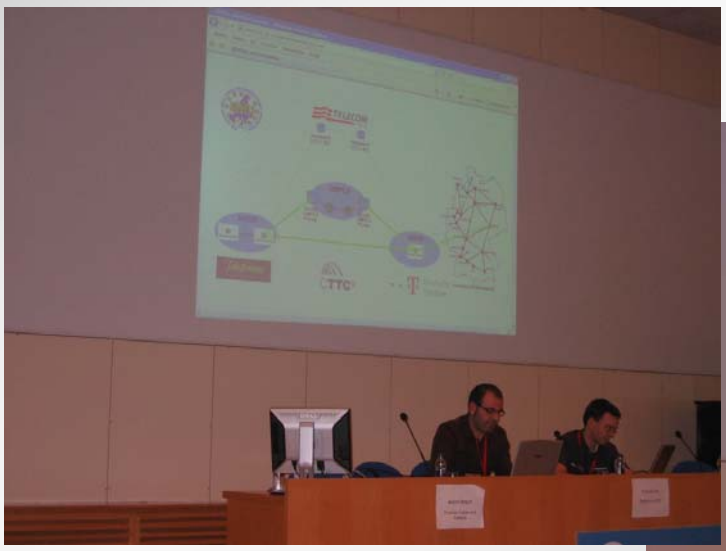


2. NOBEL 2 DEMONSTRATION AT ONDM 2008

The final demonstration of the IST Integrated Project NOBEL 2 took place at the ONDM 2008 conference. The live demonstration successfully showed the interworking between ASON and GMPLS signaling protocols in the heterogeneous multi-domain and multi-layer (TDM and LSC) scenario provided by the NOBEL2 Pan-European Control Plane Emulator. The interworking has been enabled by a protocol unaware centralized ASON/GMPLS proxy located at the CTTC premises.

The live demonstration involved CTTC, Telecom Italia, Deutsche Telekom, and Telefónica I+D test-beds, with the support of Alcatel-Lucent Nuremberg.

The experiment is described in the invited paper “Experimental demonstration of ASON-GMPLS signaling interworking in the NOBEL2 Multi-domain Multi-Layer Control Plane Emulator” coauthored by R. Muñoz, R. Martinez, R. Casellas, R. Morro, C. Cavazzoni, S. Pizzaja, M. Jaeger, H. M. Foisel, J. Jiménez, C. García, H. Dentler. The paper can be found in the proceedings of the conference.



Pictures taken during the live demo at ONDM 2008

3. NOBEL 2 PAPERS AT ONDM 2008

The NOBEL Consortium contributed to the ONDM 2008 Conference with two Invited and three Regular Papers.

Invited Papers

"Future Transport Networks in the vision of IST NOBEL", presented by Giuseppe Ferraris (Telecom Italia)

"Experimental demonstration of ASON-GMPLS signaling interworking in the NOBEL2 Multi-domain Multi-Layer Control Plane Emulator", R. Muñoz, R. Martínez, R. Casellas, R. Morro, C. Cavazzoni, S. Pizzaja, M. Jaeger, H.-M. Foisel, J. Jiménez, C. García, H. Dentler

Regular Papers

"Assessment and Performance Evaluation of PCE-based Inter-Layer Traffic Engineering", Franz Rambach (Nokia Siemens Networks), Sebastian Gunreben (University of Stuttgart)

"Regular Reconfiguration of Light-Trees in Multilayer Optical Networks", developed in cooperation with the Network of Excellence e-Photon/ONe+ , Marcell Perényi, Péter Soproni, Tibor Cinkler and David Larrabeiti (Budapest University of Technology and Economics)

"Integrating OBS Capabilities in GMPLS based Networks (Integrating GMPLS and OBS Control Planes)", Josep Solé-Pareta (UPC), Pedro Pedroso (UPC) Davide Careglio (UPC), Ramon Casellas (CTTC), paper presented during the Cost 291 workshop