P23: University of Peloponnese - UoP (Greece)

Description of expertise & activities

University of Peloponnese (UoP): The Department of Telecommunications Science and Technology, University of Peloponnese currently is the only University department in Greece that focuses solely on studying Telecommunications. The Department commenced its operations in September 2001 and therefore it was impossible to many have participated in research projects in previous IST calls. However, UoP is currently participating in the e-Photon/ONe+ Network of Excellence and in the IST-HECTO project. Moreover, the staff of the Optical Networking Group (ONG) of UoP consists of researchers that have a long history of participation in several EU projects, including ACTS-COBNET, ACTS-PLANET, IST-DAVID, IST-NOBEL and e-Photon/ONe.

The main fields of expertise include: physical layer modelling of optical networks, optical switching, optical transmission, techno-economic evaluation, modelling and performance of optical networks and control protocols (Layer-2 functionality) studies.

Tasks within BONE

WP01	Joint lead with UESSEX – Dissemination of project results
WP25	Investigation of optical interconnect architectures

Key personnel

Alexandros Stavdas: B.Sc. in Physics (University of Athens), M.Sc. in Optoelectronics and Laser Devices (Heriot-Watt University/St-Andrews University), Ph.D. (University College of London) in the field of wavelength routed WDM networks. Currently he is Associate Professor of Optical Networks in the Department of Telecommunications Science and Technology, University of Peloponnese, Tripolis, Greece. He is author or co-author to over 60 journal publications and conference articles. He has also served as the Technical Program Committee Chairman and Member of the Technical Program Committees in various International Conferences. His current research interests include physical layer modeling of optical networks, ultra-high capacity end-to-end optical networks, OXC architectures, optical packet/burst switching, and DWDM access networks.

Christina (Tanya) Politi received a B.Sc. in physics from the University of Athens in 1998 and a M.Sc. degree in the "Physics of laser communications" from the University of Essex in 2000. Subsequently, she joined the Photonic Network Research Group in the Department of Electronic Systems Engineering at the University of Essex where she obtained her PhD. She was involved in various projects including the IST-OPTIMIST and IST-BREAD projects. Her research interests include optical packet and circuit switched networks, high speed optical networks and optical wavelength converters.

Theofanis Orphanoudakis received his Dipl-Ing. degree in Electrical and Computer Engineering in 1995 and the Ph.D. in Telecommunications in 1998, both from the National Technical University of Athens. He is currently with the University of Peloponnese as a visiting assistant professor. From 1999-2005 he lead R&D activities in the area of broadband networking components as a Technical Manager of Ellemedia Technologies. From 1996 to 1999, he was a research associate at the Telecommunications Laboratory of the National Technical University of Athens. He has participated in several EU research programs and has led projects in the areas of broadband networking components and broadband access networks. His research interests include design & implementation of high-speed networking systems, performance evaluation of MAC protocols for shared broadband systems, traffic engineering, switching, scheduling and network processor architectures. He has several publications in the above-mentioned areas. Dr. Orphanoudakis is a member of the IEEE and the Technical Chamber of Greece.