## *P33: UNIMORE (Italy)*

### Description of expertise & activities

The University of Modena and Reggio Emilia is one of the few examples of Italian Universities organised according to a "location network" model. Its main feature therefore is that it is supported by a complementary and unitary development project as regards the management of the two distinct academic poles. Modena and Reggio Emilia did in fact begin boosting the potential of the University in 1998 and this has so far led to the creation of 8 faculties in Modena (Biosciences and biotechnologies, Economics, Pharmacy, Jurisprudence, Engineering, Letters and Philosophy, Medicine and Surgery, Mathematical, Physical and Natural Sciences) and 4 in Reggio Emilia (Agriculture, Engineering, Communication and Economic Sciences, Training Sciences).

The Department of Information Engineering, placed in Modena, counts about 35 full-time tenure members, including full and associate professors and assistant professors, and it hosts a International Doctorate School in Information and Communication Technologies. The Department is very active in education, with three BSc courses in Telecommunications, Electronic and Computer Engineering, respectively, and three Master courses in Telecommunications, Electronic and Computer Engineering. The Department has been also involved in advanced research for many years, where the studies on optical networking have been carried on both within national funded projects and European projects, where some members have been involved, starting from ATMOS then KEOPS and, recently, e-Photon/ONe. The main research areas in optical networking deal with Optical Burst Switched networks, in particular what concerns burst assembly and scheduling and End-to-End performance.

### Tasks within BONE

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| WP11 | Virtual Centre of Excellence on Network Technologies and Engineering |
| WP14 | Virtual Centre of Excellence on Optical Switching Systems (VCE-S) |
| WP24 | Edge-to-node adaptation for hybrid networks |

### Key personnel

**Maurizio Casoni** is Associate Professor in Telecommunications at the University of Modena and Reggio Emilia. He graduated with honors in Electrical Engineering at the University of Bologna in 1991 and received the Ph.D. degree also in Electrical Engineering from the University of Bologna, in 1995. In 1995 he was with the Computer Science Department at Washington University in St.Louis, MO, as a research fellow where he worked on ATM broadband switching architectures. He has studied ATM broadband switching architectures and Clos architectures for the design of large photonic switches in the framework of the European Projects ATMOS and KEOPS. His current research interests deal with Optical Networking, focusing on Optical Burst Switching mainly carried on within the e-Photon/ONe Network of Excellence. He currently holds the courses of Interconnection Systems and Switching Systems for students of Telecommunications Engineering.

**Maria Luisa Merani** received both the M.Sc. (summa cum laude) and the Ph.D. in electrical engineering from the University of Bologna, Italy, in the academic years 1985-86 and 1991/92, respectively. In 1992 she spent one year at the Computer Science Department of the University of California in Los Angeles. Since 1993 she is with the Department of Information Engineering of the University of Modena and Reggio Emilia, where she is currently an Associate Professor. Her research interests lie the area of optical and radio communications, with emphasis on data networking and wireless multimedia. Dr. Merani has been very active within the Technical Program Committee of several flagship international conferences (IEEE globecom, IEEE ICC, IEEE VTC, IEEE PIMRC and the Asia-Pacific Conference on Communications). She has served as the Technical Program co-Chair for the 2nd IEEE International Symposium on Wireless Communication Systems 2005 (ISWCS'05); she is currently co-chairing the IEEE Globecom 2007 WirelessCommunicationsSymposium. Dr. Merani is an IEEE Senior Member.