

## IV Seminar in Multi-Gigabit Optical Networks - July 18, 2007

### Polarization and Quantum Effects in Optical Communication Systems

Instituto de Telecomunicações – Aveiro - Portugal

#### Scope

With a strong commitment to create and disseminate scientific knowledge in the field of telecommunications, the Instituto de Telecomunicações presents the IV Seminar in Multi-Gigabit Optical Networks. In this edition the seminar will be devoted to polarization and quantum effects in optical communication systems. With distinguished speakers, this seminar offers cutting-edge information for researchers and graduate students.

#### Registration

The seminar is free, however, because space is limited, registration is required. Registrations will be accepted following the order of arrival. To register, please, contact Sandra Corujo.

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### PROGRAM

09:00	Welcome	Prof. José Ferreira da Rocha <i>Inst. Telecommunications / Univ. Aveiro (Portugal)</i>
09:15	PMD: Basics	Prof. Magnus Karlsson <i>Chalmers University of Technology (Sweden)</i>
10:00	PMD Modeling	Dr. Nelson Muga <i>Inst. Telecommunications / Univ. Aveiro (Portugal)</i>
10:30	Reflectometric Measurements of PMD	Prof. Andrea Galtarossa <i>University of Padua (Italy)</i>
11:15	Coffee Break	
11:30	PMD in HiBi Fiber Gratings	Prof. Hypolito Kalinowski <i>Federal University of Technology - Paraná (Brazil)</i>
12:00	PMD Induced Pulse Broadening	Prof. Mário Ferreira <i>University of Aveiro (Portugal)</i>
12:30	Lunch Break (on your own)	
14:00	Quantum Optical Communication Systems	Prof. Armando Nolasco Pinto <i>Inst. Telecommunications / Univ. Aveiro (Portugal)</i>
14:45	Nonlinear Applications of Quantum Dots -Semiconductor Optical Amplifiers	Prof. Henrique Silva <i>Inst. Telecommunications / Univ. Coimbra (Portugal)</i>
15:30	Single-Photon Sources	Prof. Paulo André <i>Inst. Telecommunications / Univ. Aveiro (Portugal)</i>
16:00	Coffee Break	
16:15	Ultra-Low PMD Spun Fibers	Prof. Andrea Galtarossa <i>University of Padua (Italy)</i>
17:00	PMD: System Impact and Mitigation Methods	Prof. Magnus Karlsson <i>Chalmers University of Technology (Sweden)</i>
17:45	Closing	Prof. José Ferreira da Rocha <i>Inst. Telecommunications / Univ. Aveiro (Portugal)</i>