



Manuela Vieira

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Manuela Vieira was born in Lisbon, Portugal. In 1986 she received the Master of Science in Solid State Physics-Microelectronic and in 1993 the PhD in Semiconductor Materials both from the New University of Lisbon. Since 2011, she is a full professor in Electronics inside the department of Electronics Telecommunication and Computers of the Instituto Superior de Engenharia de Lisboa (ISEL) and Associated Professor in the New University of Lisbon, School of Sciences and Technology (UNL-FCT, Portugal)..

Instituto Superior de Engenharia de Lisboa (ISEL) is the oldest Portuguese engineering school with more than 160 years and it continues to provide high-level educational services ever since. A wide range of subjects is offered, through both:

- Traditional fields of study: Chemical Engineering; Civil Engineering; Electrical Engineering; Electronics, Telecommunications and Computers engineering; Mechanical Engineering;
- Emerging Science and Technology fields of study: Biological Computer Science; Multimedia Engineering; Renewable and Sustainable energy.

As a professor the main management responsibilities have been:

- Member of ISEL's Scientific Committee (1988/...);
- Head of the Department of Electronics and Telecommunications and Computer Engineering (DEETC) (1997/2011);
- Member of ISEL's House of Representatives (2009/...)
- Head of the Scientific board (ISEL) (2011/...).
- Head of the Committee of the evaluation process (2011/...)
- Vice president (ISEL) (2011/2014)
- Coordination of the drafting of the rules of procedure of the scientific and technical Council (2011/...);
- Member of the Commission for the definition of the strategic plan of the ISEL (2011/...);

Manuela Vieira is the leader of the Research Groups in Applied Research in Microelectronic Optoelectronic and Sensors (GIAMOS / ISEL) and in Microelectronic, Material and Processes

(M2P/ CTS-UNINOVA). She has several scientific papers and 35 years of experience in the field of thin films and devices.

Her research activities are in optoelectronics and have been mainly related to the development of optical sensors. They can be divided in three main classes:

- Fabrication and Characterization of electronic materials;
- Semiconductor devices and Microelectronics, Sensors and Transducers;
- Optoelectronics, Photonics and Visible Light Communications.

Research in the first phase (1987/1996) took place in “Centro de Física Molecular da Universidade de Lisboa”–CFM and “Centro de Excelência de Microelectrónica e Optoelectrónica de Processos “-CEMOP-UNINOVA. Research in the second and third phases takes place under her own coordination in “Grupo de Investigação Aplicada a Microelectrónica, Optoelectrónica e Sensores” (GIAMOS ISEL-DEETC) (1997/...) and in group “Microelectrónica Materiais e Processos (M2P)” in “Instituto de Desenvolvimento de Novas Tecnologias da Faculdade de Ciências e Tecnologia da Universidade de Lisboa”.

She has an extensive track record in publishing its research in peer reviewed journals and conferences. She has supervised to completion seven Phd students and twenty research masters students and has published extensively in this field. Authored and co-authored over than 400 publications in refereed journals and conferences proceedings. Presented more than 500 communications at conferences and seminars most of which with publication in journals and proceedings.

Other scientific activities:

- Referee for international publications such as: Thin Solid Films, Material Research Society, Sensor Magazine, Sensor and Actuators, Material Science Fórum, Solid State Electronics, Vacuum, Applied Surface Science, Sensors and Transducers, Revista Ibersensors, Physica Status Solidi, Sensors, Journal of Nanoscience Nanotechnology, Journal of Sensors, Journal of Signal and Imaging Systems Engineering (IJSISE), etc.
- Referee for several EU projects as part of the Programme Growth “Innovative Products, Processes and Organisation“.
- Coordination of national and EU projects in the field of sensors, transducers and microelectronics;
- Supervision and co-supervision of Master and PhD students
- Co-supervision of master and doctoral degrees in micro and optoelectronics
- Examiner for Master and Doctoral degrees.
- Implementation of adequate training for researchers and supervision of internships of BSc, MSc, PhD and post-doctoral fellows.
- Interface with external institutions, including industry and other academic institutions.

Manuela Vieira’s contribution to the IARIA started in 2014. She is author and co-author of several articles presented at IARIA conferences and published in IARIA journals. She has been session chair and panellist at IARIA conferences. Five of her contributions have been awarded with Best Paper Awards. As IARIA Fellow, she seeks to support the efforts of the organization in finding solutions for recruiting and retaining students in Electronic and Communication. Therefore, she intends to promote interdisciplinary research and outreach and to build international collaborative research teams in visible light communications.