

## Brief CV

Theodora Leventouri

### EDUCATION

- Ph.D. Physics, Experimental Condensed Matter Physics, University of Athens, Greece.
- Post Graduate Training: Visiting Research Scientist 1983-84, ORNL (Oak Ridge National Laboratory), X-Rays and Applications Group, USA. Visiting Research Scientist 1998, High Flux Isotope Reactor, Neutron Scattering Section, Solid State Division, ORNL, USA.

### ACADEMIC APPOINTMENTS

- 2006-present: Professor, Physics Department, Graduate Faculty, FAU.
- 2010-present: Founding Director, Medical Physics program, FAU.
- 2006-present: Director, Center for Biomedical and Materials Physics (CBAMP).
- 1992-2006: Associate Professor, Physics Department, FAU.
- 1991-92: Adjunct Professor, Physics Department, FAU.
- 1988-91: Associate Scholar Scientist, Physics Department, FAU.
- 1986-92: Associate Professor, Physics Department, University of Athens, Greece.
- 1982-86: Lecturer, Physics Department, University of Athens, Greece.
- 1973-82: Assistant Professor, Physics Department, University of Athens, Greece.

### HONORS

- Fall 2008: Sabbatical, National Technical University of Athens, Greece.
- 2006: Faculty Research Incentive Award, Division of Research, FAU.
- 2003: Charles E. Schmidt College of Science Undergraduate Teaching Award Nominee.
- 2001: Advisor of the Year Award for Eminent Leadership, Multicultural Premed Society.
- Fall 1998: Sabbatical at HFIR of the Oak Ridge National Laboratory.
- 1997: Award for Excellence in Undergraduate Advising.
- 1997: Nomination for the Teacher of the Year award by the students.
- 1996: Teaching Incentive Program Award (TIP).
- 1968-73: Hellenic National Research Foundation Graduate Fellowship.

### PROFESSIONAL ORGANIZATIONS

- American Physical Society
- Hellenic Physical Society
- American Crystallographic Association
- Materials Research Society
- American Association of University Women
- National Association of Women in Education

- American Association of Physicists in Medicine
- Society of Directors of Academic Medical Physics Programs

## RESEARCH INTERESTS

Structure and physical properties of crystalline matter. Experimental methods of study include: x-ray diffraction, neutron scattering, electron microscopy, and magnetic measurements. Medical Physics, Radiation Therapy. Research topics include:

- Crystal structure, microstructure and properties of apatite based natural & synthetic biomaterials. Structure, microstructure and magnetism of alloy catalysts in carbon nanofibers.
- Structure and magnetism of nano-bioceramics.
- Medical Physics: Radiation Therapy
- Preferred orientation, phonons, critical current density of bulk high-superconductors.
- Magnetic transitions in long-range ordered alloys.
- Structure and phonons in colossal magnetoresistance materials (CMR).
- Electronic states of light elements with x-ray Raman spectroscopy.
- Internal strains in solids with the techniques of x-ray crystallography.
- Plasmon excitations in solids using inelastic x-ray scattering.

**Advisor Ph.D. Physics:** Graduated 5 students.

**Co-Advisor Ph.D. Physics:** Currently 3 students.

**Advisor MS Physics:** Graduated 5 students.

**Co-Advisor Professional Science Master in Medical Physics (PSMMP):** Graduated 17 students (2011-2015).

**Editorial Service:** Reviewer

- National Science Foundation
- Physical Review B
- Physical Review Letters
- Journal of Biomaterials
- Journal of Pharmaceutical and Biomedical Analysis
- Materials Research Society Proceedings
- Crystal Growth & Design
- Journal of Solid State Chemistry
- Acta Biomaterialia
- Thermochemica Acta
- Journal of Surface Coatings and Technology
- Journal of Biomedical Materials Research. Part A
- J. American Mineralogist
- J. Magnetism and Magnetic Materials