

**Dr. Eleni C. Paloura, Ph.D. M.I.T., '88**  
**Associate Professor**  
**A.U.TH., School of Physics**  
**Department of Solid State Physics, 54124 Thessaloniki, Greece**



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## EDUCATION

- 1988 PhD, Department of Materials Science & Engineering, Massachusetts Institute of Technology. Thesis title "*Growth of thin Si<sub>3</sub>N<sub>4</sub> films and study of their electronic characteristics*" Advisor Prof. R.C. Gatos
- 1981 MSc in Electronics, School of Physics Aristotle University of Thessaloniki, Greece
- 1978 BSc, School of Physics, Aristotle University of Thessaloniki, Greece

## RESEARCH INTERESTS

- Determination of materials nanostructure and electronic structure using the synchrotron radiation assisted X ray absorption spectroscopies EXAFS and NEXAFS,
- Synchrotron radiation assisted XRF,
- $\mu$ -EXAFS,  $\mu$ -NEXAFS and  $\mu$ -XRF with high spatial resolution (1.5-5 $\mu$ m)
- Electrical and electronic properties of electronic materials and devices (C-V, I-V, DLTS),
- Auger and XPS spectroscopies,
- Plasma technology for materials growth and property modification,

## COURSES

### School of Physics

- Solid State Physics
- Surface physics and applications
- Physics Laboratory I
- Optics Laboratory

### Graduate program "Materials Physics & Technology"

- Materials synthesis & growth
- Nucleation & growth
- Thin film technology II: Applications
- Physics & technology of optoelectronic materials & devices
- Lab in research methodology

### School of Pharmacy

- Physics

## SUPERVISION OF PHD THESIS

- Dr. Ms. M. Katsikini (2000),

- Dr. Ms. F. Pinakidou (2006),
- Mr. P. Apostolopoulos (in progress).

#### COLLABORATIONS

- BESSY I-Berlin Dr. K. Holldack, Dr. W. Frentrup, Dr. P. Bressler, Dr. W. Braun.
- BESSY II-Berlin Prof. A. Erko.
- Boston University Prof. T. D. Moustakas.
- C.N.R.S-Paris Lab. de Physique des Solides, Dr. J. Chevallier και Dr. B. Theys.
- H.M.I.-Berlin Dr. E. Holub-Krappe.
- HASYLAB Dr. E. Welter.
- Humboldt Univ. Dr. Ch. Janowitz, Dr. A. Mertens.
- I.B.M. Dr. Yue Kuo, Dr. J. Kanicki.
- I.T.E. Surface Science Laboratory
- I.T.E. Inst. Electronic structure & lasers
- J. W. Goethe-Univ. Dr. A. Markwitz, Prof. K. Bethge.
- Meijo Univ.-Japan. Prof. I. Akasaki and Prof. Amano.
- Nottingham Univ. Prof. C.T. Foxon.
- Univ. of Liverpool Prof. P. J. Goodhew.
- Univ. of Bologna Assoc. Prof. F. Boscherini.
- Univ. of Utrecht Prof. F. H. P. M. Habraken.
- Univ. of Jena Prof. W. Wesch.
- SIETEC-SIEMENS Dr. U. Döbler, Dr. A. Knop.

**Publications : 87**

**Citations: more than 450**