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CURRICULUM VITAE

Surname: **Polychroniadis** First name: **Efstathios**

Position: Professor

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Nationality: Greek Date and place of birth: Thessaloniki, 1.11.1946

Education

1972 BSc in Physics, Department of Physics, Aristotle University of Thessaloniki, Greece

1980 PhD in Physics, Department of Physics, Aristotle University of Thessaloniki, Greece

1981-2 Postdoctoral research fellowship, Electron Microscopy Laboratory, Material Science Department, Nuclear Energy Centre S.C.K./C.E.N., Belgium

Further Education: Summer Schools - Advanced Studies Seminars

1. Advanced Study Institute: "Modulated Structure Materials", Crete, Greece, June 15-25, 1983
2. 6th International Summer School on Crystal Growth, Edinburgh, UK, July 5-13, 1986
3. 3rd National Seminar on Crystal Growth, Madras, India February 16-19, 1987

4. Advanced Study Institute: "Alloy phase stability", Crete, Greece, June 13-27, 1987

5. International Symposium on Metal-Ceramic Interfaces, Irsee, Germany, July 1991

6. Advanced Study Institute: "Equilibrium Structure and Properties of Surfaces and Interfaces"
Halkidiki, Greece, August 18-30, 1991

Academic Activities

University Courses: 11

PhDs Supervision: 9

Research interests

· Growth and microstructural characterization of crystalline materials by TEM (bulk, thin and thick films, coatings)

· Study of phase transitions in crystalline and amorphous solids

· Morphological characterization in micro- and nano-scale, phase identification in composite materials using electron diffraction

Publications

Number of papers in refereed journals and international scientific conferences: 218

Number of papers presented in local and bilateral scientific meetings: 117

Books or chapters in books: 9

Invited Lectures: 14

Citations in referred journals (excluding all authors' self-citations): 1153

AUTH Coordinator of the following projects

1. Growth and Microstructural study of porous silicon solar cells in view of increasing

their efficiency

Greek-Turkish Scientific Cooperation (approved)

2. Training Network on Functional Interfaces for Silicon Carbide (NetFISiC)

Research Training Networks, EU (2011-2015)

3. Large Area silicon carbide Substrates and heteroepitaxial GaN for POWER device applications (LAST-POWER)

ENIAC JU, EU (2010-2013)

4. Promoting and structuring a Multidisciplinary Academic-Industrial Network through the hetero-polytype growth, characterization and applications of 3C-SiC on hexagonal substrates (MANSiC)

Research Training Networks, EU (2007-2010)

5. Study of the reduction mechanism regarding the structural defects of Cubic SiC (3C-SiC) through its crystal growth

Greek-French Scientific Cooperation (2006-2008)

6. The study of physical and chemical properties of silver coins of Illyrian King Monounios (the Kreshpan hoard) belonging to the IIIrd century BC and their

comparison with the some type coins of Kerkyra, Dyrrachion and Apollonia

Greek-Albanian Scientific Cooperation (2003-2005)

7. Comparative study of the influence of the growth method on the structure and anticorrosion properties of zinc coatings on ferrous substrates

Pythagoras, Greek Ministry of Education (2003-2005)

8. Thermo-Photo-Voltaic cell based on GaSb

Research Training Networks, EU (2002-2005)

9. Flash lamp supported deposition of 3C-SiC (FLASiC)

Promoting competitive and sustainable growth, EU (2002-2005)

10. Structural properties of 3C-SiC films grown on Si substrate

Iraklitos, Greek Ministry of Education (2002-2005)

11. New cubic silicon carbide material for innovative semiconductor devices (SOLSiC)

Promoting competitive and sustainable growth, EU (2001-2005)

12. Technological study of Illyrian terracottas of Aphrodite and related ceramics of Hellenistic period from Belesh, Albania

Greek-Albanian Scientific Cooperation (2000-2002)

13. Greek Electron Microscopy Center –A Network of EM Laboratories

EPET II, General Secretariat for Research and Technology (1999-2001)

14. Materials for room temperature X & gamma rays detectors: the HgI₂-HgBr₂ system

Greek-Bulgarian Scientific Cooperation (1998-99)

15. New room temperature semiconductor detectors based on HgBr₂-HgI₂ system

Collaborative Research Grant, NATO (1996-1998)

16. Chaotic electrical behavior and structural properties of TlAX₂ and TlBX₂

Collaborative Research Grant, NATO (1993-1995)

17. Crystal growth and characterization of semiconductors for high sensitivity, wide band, room temperature detectors

International Scientific Exchange Program, Greece-Spain Bilateral agreement (1989-1993)

Organization of Conferences and Summer Schools

1. 1st General Conference of the Balkan Physical Union, Thessaloniki, Greece, 1991
2. 6th International Conference on Intergranular and Interphase Boundaries in Materials (iib'92), Thessaloniki, Greece, June 21-26, 1992
3. 13th Hellenic Conference on Solid State Physics, Thessaloniki, Greece, 1997
4. 1st Balkan School on Materials Physics, Thessaloniki, Greece, September 16-25, 1998
5. 2nd Balkan School on Materials Physics, Thessaloniki, Greece, Sept. 28 – Oct. 6, 1999
6. International Conference on Physics in Culture, Thessaloniki, Greece, October 28-30, 1999
7. 3rd Balkan School on Materials Physics, Thessaloniki, Greece, October 3-11, 2000
8. Summer School on Physics of Advanced Materials, Intensive Program, Socrates / Erasmus Program, Thessaloniki, Greece, June 30 - July 11, 2003

9. Summer School on Physics of Advanced Materials, Intensive Program, Socrates / Erasmus Program, Thessaloniki, Greece, June 28 - July 9, 2004

10. Physics of Advanced Materials Winter School, EU Research Training Network (MANSiC), Thessaloniki, Greece, January 14-18, 2008

Referee in the following International Scientific Journals

1. Journal of Crystal Growth

2. Journal of Physics D: Applied Physics

3. Journal of Physics: Condensed Matter

4. Materials Science and Engineering A

5. Nanotechnology

6. New Journal of Physics

7. Physica Status Solidi

8. Semiconductor Science and Technology

9. Journal of Microscopy

10. Microscopy Research and Technique

11. IEEE Transactions on Electron Devices