#### HELLENIC REPUBLIC



# **National and Kapodistrian University of Athens**

Department of Physics
Section of Solid State Physics



# **Emmauel Syskakis**

Title: Assistant Professor

Date and Place of Birth: 5/7/1957, Ag. Nikolaos, Crete

Military service: Sept. 1987/ March 1988

Marital Status: one child

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# **Academic Qualifications:**

• Degree in Physics: National and Kapodistrian University of Athens (1981).

- Postgraduate studies in Physics: NCSR Demokritos, Athens, Greece (1980-1981).
- Doctorate in Physics: Technical University of Aachen, GERMANY, (1985).

### **Appointments:**

- PhD student at the Department of Solid State Physics of the Research Center Juelich Juelich, GERMANY (9/1981-12/1984).
- Scientific personnel at the Department of Physics of the University of Bayreuth, GERMANY (1/1985-9/1987).
- Visiting scientist at the Department of Physics of the University of Bayreuth GERMANY (9/1989-12/1989)
- Group Leader at the Institute for Energy Materials of the Research Center Juelich, Juelich, GERMANY (1/1990-12/1994). Also, teaching personnel at the Technical University of Crete (1994-1995), spring semester periods (1-2 months/year).
- Assistant Professor at the Department of Physics of the National and Kapodistrian University of Athens (1/1997- ). Also, Visiting Researcher at the institute of Physics, University of Bayreuth, GERMANY, for short periods (1-2 months/year).

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# **Teaching Activities/Responsibiliies: (current)**

- Physics and Technology of Materials (postgraduate classroom course).
- Advanced laboratory (postgraduate classroom course).
- Physics (undergraduate classroom course and Laboratory course, Dptmt of Biology, NKUA).
- Fundamental Physics Laboratory III: Heat and Waves (Y0333, undergraduate, teaching and responsibility).
- Laboratory of Solid state Physics: (Y0333, undergraduate)
- Supervising one PhD thesis and three MSc theses.

### **Research Interests/Activities:**

- Synthesis and processing of Inorganic nonmetallic materials.
- Electrical and magnetic properties of bulk Oxides and thin films.
- Calorimetry and thermal analysis.
- Phase transitions.
- Properties of materials for energy applications

## **Scientific Publications/Citations:**

- 1 Doctoral Dissertation.
- 22 papers in regular issues of international
- 32 papers in peer-reviewed international conference proceedings.
- 50 communications to conferences.
- About 500 citations (excluding selfcitations).
- h-index: 10 (calculated from the heterocitations only).

## Selected publications

- 1. E. Syskakis, F. Pobell and H. Ullmaier:
  "Superfluidity of He-4 in Microscopic
  Bubbles in Cu. "Phys. Rev. Lett. 55, (1985),
  2964.
- 2. E. Syskakis, Y. Fujii, F. Pobell, and H. Schroeder: "Heat Capacity of Microscopic Liquid He-3 Bubbles in Ag". J. of Low Temp. Phys. 79, (1990), 341
- 3. S. Bilger, E. Syskakis, A. Naoumidis and H. Nickel: "Sol-Gel Processing and Characterization of Strontium-doped Lanthanum Manganite Powder for the SOFC Cathode". J. Am. Ceramic. Soc. 75, (1992), 964
- 4. G. Stochniol, E. Syskakis, A. Naoumidis:
  "Chemical Compatibility between
  Strontium-doped Lanthanum Manganite
  and Yttria-stabilized Zirconia", J. Am.
  Ceram. Soc. 78, (1995), 929
- 5. P. Kountouros, R. Förthmann, A. Naoumidis, G. Stochniol, and E. Syskakis
  "Synthesis, Forming and Characterization of Ceramic Materials for the Planar Solid Oxide Fuel Cell (SOFC)". Ionics 1, (1995), 40
- 6. L. Zimmermann, H.G. Bohn, W. Schilling and E. Syskakis. "Mechanical Relaxation Measurements in the Protonic Conductors SrCeO3 and SrZrO3". J. Solid State Ionics 77, (1995), 163
- 7. A. Michalopoulou, E. Syskakis, and C. Papastaikoudis. "Low Temperature transport properties of non-stoichiometric La0.95-xSrxMnO3". J. Phys: Condens. Matter 13, 11165, (2001)

- 8. E. Syskakis, G. Choudalalkis and C. Papastaikoudis. "Crossover between Kondo and electron-electron interaction effects in La0.75Sr0.20MnO3 doped with Co impurities", J. Phys: Condens. Matter 15, 7735, (2003)
- 9. Giapintzakis, J., Androulakis, J., Syskakis, E., Papageorgiou, Th., Apostolopoulos, G., Thanos, S., Papastaikoudis, C. "Influence of the nonmagnetic impurities on the spin-1 Heisenberg chain SrNi2V2O8 system". Physica Status Solidi (B) 243 (2006), pp. 1366-1374.
  - 10. Logakis, E., Pollatos, E., Pandis, Ch., Peoglos, V., Zuburtikudis, I., Delides, C.G., Vatalis, A., Gjoka, M., Syskakis, E., Viras, K., Pissis, P. "Structure-property relationships in isotactic polypropylene/multi-walled carbon nanotubes nanocomposites" Composites Science and Technology, 70 (2010), pp. 328-335.

### Other Activities:

- Reviewer in several international scientific journals.
- Participation in one international, 1 national and 5 university research programs.