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## CURRICULUM VITAE

### Holiastou Myrto

2010

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#### Date of birth

1968

#### Education

- 1986–1991 University of Athens, Physics Department  
B.Sc (Hons) in Physics (Grade 7,3/10)
- 1992-1994 MS'c in advanced Physics and Mathematics  
Three Semester Post-Graduate studies in Solid State Physics  
(Theoretical Mechanics, Electromagnetism, Quantum Mechanics, Group  
Theory, Statistical Mechanics, Differential Equations, Solid State  
Physics, Advanced Thermodynamics)
- 1993-1998 PhD in Physics, NTUA (National Technical University of  
Athens), Athens, Greece and NCSR (National Center for scientific  
research) “Demokritos”  
Thesis Title: “Preparation and Study of the superconducting series  
 $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$ ,  $n=1,2,3$ ”  
Thin film preparation by magnetron sputtering technique
- 1998 Research cooperation, CEA (Commissariat a l' Energie Atomique),  
Departement de recherche fondamentale sur la matiere conndensee,  
Grenoble, France.

#### Languages

- First Certificate in English (University of Cambridge) (grade A) (1983).
- Certificate of Proficiency in English (grade C) (1987).
- TOEFL (USA) (total score 650) (1990)

### Co-operations, Working Experience

- 1996 (2 months) Institute fur Physik, Johannes Gutenberg Universitat, Mainz, Germany. Thin film fabrication with the Magnetron sputtering technique
- 1999 (5 months) Commissariat a l' Energie Atomique (CEA), Departement de recherche fondamentale sur la matiere condensee, Grenoble, Γαλλία. Post-doc research on: «Simulation of magnetic properties of magnetic multilayer thin films»
- 2000(-today) Hellenic Institute of Metrology (EIM), Thessaloniki, Greece  
Head of the Low frequency Laboratory, Electrical Department

### Seminars- Training

- NATO School of Crystallography: "Materials and Crystallographic Aspects of High Temperature Superconductors", Erice (sicily), Italy, 1993
- NATO School: "Materials Aspects of High Tc Superconductors: 10 Years after the Discovery", Delfoi, 1996
- Primary Hall resistance standard, Cryogenics Ltd. (UK), EIM, 2002
- AC-DC Transfer standards, Physikalisch-Technische Bundesanstalt (PTB), PTB, 2003
- Uncertainty Calculation using Monte Carlo Simulations and Law of Propagation of Uncertainties, Hellenic Institute of Metrology (EIM), 2004
- Energy measurement in the legal metrology, Voltage and current measurements, calibrations of TPZ303, COM303, RMM303, the PTB testing instructions electricity meters, Physikalisch-Technische Bundesanstalt (PTB), EIM 2006
- Application of Labview in Calibration Technical Procedures - Labview Basics I, National Instruments, EIM, 2007
- Advanced AC-DC Transfer for voltage and current, Physikalisch-Technische Bundesanstalt (PTB), EIM 2007

### Teaching

- Seminar lectures on «Multimeters calibration», EIM 2002, Athens 2005
- Supervision of a National Technical University of Athens practice on “Automatization of multimeter HP3458A calibration”, EIM, 2004
- Supervision of a Technological Institute of West Macedonia (Kozani) practice on “Inserion of multichannel scanner in a standard resistance bridge and automatization of the measurements”, EIM, 2009

### Participation in research projects

- EPET II 360: «Development and applications of high temperature superconductors», 2006-2007

EMRP (European Metrology research program, EURAMET): «SR14 Metrology in smart electrical grids», 2010-1024.

## Publications

- "Relation of starting precursors to the resulting HTc phases in the Pb and Sb doped Bi-Sr-Ca-Cu-O system", F. Constantinescu, M. Holiastou, D. Niarchos, G. Nicolaidis, F. Vasiliou, C. Bunescu and G. Aldica, J. Mater. Res. **9**, 1 (1994).
- "Processing parameters of the  $\text{ReBa}_2\text{Cu}_3\text{O}_{7-x}$  (Re=Rear Earth) system: structural and superconducting behavior", A. Andreouli, A. Tsetsekou, M. Holiastou, D. Niarchos, 8<sup>th</sup> SimTech-Floence, June 1994.
- "Preparation of thin films of the three members of the superconducting series  $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$  (n=1,2,3) with the method of sputtering and characterization", M. Holiastou, M. Pissas, Δ. Νιάρχος, P. Haibach, U. Frey, H. Adrian, XI National Conference of Solid State Physics, Xanthi, 1995.
- "Simulation of the magnetic measurements of the superconducting thin films of the series  $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$  (n=1,2,3) based on theoretical model, where a power law between the local electric field and the current is assumed", M. Holiastou, M. Pissas, D. Niarchos, P. Haibach, U. Frey, H. Adrian, XII National Conference of Solid State Physics, Heraklio, Krete 1996.
- "Study of thin films of the three members of the superconducting series  $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$  (n=1,2,3) with x-rays and Raman spectroscopy", M. Holiastou, B. Psycharis, D. Niarchos, N. Poulakis, D. Palles, E. Liarokapis, XII National Conference of Solid State Physics, Heraklio, Krete 1996.
- "Theoretical calculation of the magnetic "Θεωρητικός υπολογισμός της μαγνητικής flux, current density and magnetic induction of rectangular thin films in a magnetic field", M. Pissas, M. Holiastou, N. Gidopoulos, A. Theofiloy, D. Niarchos, XII National Conference of Solid State Physics, Heraklio, Krete 1996.
- "The UV laser beam YBCO target interaction for optimum preablation for the growth of YBCO thin films", C. Andreouli, S. Christoulakis, T. Efthimiopoulos, A. Tsetsekou, M. Holiastou, C. Panagopoulos, GR-Italy International Conference, Olympia, 1997.
- "XRD and micro Raman characterization of epitaxial Bi-2201, Bi-2212 and Bi-2223 thin films", M. Holiastou, N. Poulakis, E. Liarokapis, D. Niarchos, U. Frey and H. Adrian, Physica C **282-287**, 583 (1997) (5<sup>th</sup> International Conference, Materials and Mechanisms of High Temperature Superconductors, Peking, China, 1997)
- "Preparation and x-ray pole-figure characterization of DC-sputtered Bi-2201, Bi-2212 and Bi-2223 thin films", M. Holiastou, V. Psycharis, D. Niarchos, P. Haibach, U. Frey and H. Adrian, Sypercon. Sci. Tech. **10**, 712 (1997).

- "Simulation of magnetic relaxation measurements of tetragonal  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$  and  $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+y}$  thin films", M. Holiastou, M. Pissas, D. Niarchos, P. Haibach, U. Frey and H. Adrian, *Sypercon. Sci. Tech.* **11**, 1241 (1998).
- Raman spectroscopy study of the superconductor  $\text{MgB}_2$ ", P. Parisiadis, D. Lampakis, D. Palles, E. Liarokapis, N. Poulakis, E. Flouda, M. Holiastou, 2<sup>nd</sup> regular National Metrology Conference, Thessaloniki (2007).
- "Modified Wheatstone bridge for the calibration of standard resistors of nominal value from 10 M $\Omega$  to 1 T $\Omega$ », M. Holiastou, E. Flouda, S. Sdrakas, A. Chatzopoulos, X. Sarafidis, 2<sup>nd</sup> regular National Metrology Conference, Thessaloniki (2007).
- "The upgrated standard for time and frequency at the Hellenic Institute of Metrology", S. Sarafidis, M. Holastou, G. Krikelas, E. Flouda, S. Sdrakas, 2<sup>nd</sup> regular National Metrology Conference, Thessaloniki (2007).
- "Metrological verification and calculation of the stability of high accuracy multifunction electrical devices", E. Flouda, M. Holiastou, S. Sdrakas, 2<sup>nd</sup> regular National Metrology Conference, Thessaloniki (2007).
- AC-DC transfer method for the calibration of AC voltage at the Hellenic Institute of Metrology, M. Holiastou, E. Flouda, S. Sdrakas, T. Todi, 2<sup>nd</sup> regular National Metrology Conference, Thessaloniki (2007).
- Comparison of the Josephson voltage standards of the EIM and the BIPM, S Solve, R Chayramy, M Stock, M Holiastou and I Flouda, *Metrologia* **47** (2010)