

SUMMER SCHOOL – NN07, 14-20/7/2007

PRELIMINARY PROGRAM

Saturday 14/7/2007 (Supervisor of the 1st day: Assoc. Prof. N. Frangis)	
08:00 – 9:00	Registration
Day 1: Nanoscale Materials - Properties & Techniques at Nanoscale	
09:00 – 09:15	Welcome (Prof. S. Logothetidis, Physics Department, AUTH)
09:15 – 10:30	Nanotechnology and Applications (Prof. S. Logothetidis, LTFN, Physics Department, AUTH)
10:30 – 10:45	Coffee Break
10:45 – 12:00	Carbon nanomaterials & their potential in emerging nanotechnologies I (Dr. K. Porfyrakis, Department of Materials, Oxford University, UK)
12:00 – 13:15	Investigation of the Structure and Dynamics in Polymer Nanocomposites (Prof. S. Anastasiadis, Chemical Engineering Dept., AUTH)
13:15 – 14:30	Lunch
14:30 – 15:45	Nanomechanics: an Introduction (Prof. E.C. Aifantis, Laboratory of Mechanics and Materials, Polytechnic School, AUTH)
15:45 – 17:00	Carbon nanomaterials & their potential in emerging nanotechnologies II (Dr. K. Porfyrakis, Department of Materials, Oxford University, UK)
17:00 – 17:15	Coffee Break
17:15 – 18:30	SEM-TEM I (As. Prof. C. Lioutas, Lab of Electron Microscopy, Physics Department, AUTH)
End of Day 1	

Sunday 15/7/2007 (Supervisor of the 2nd day: Dr. A. Laskarakis)	
Day 2: Thin Film Technology - Nanostructured Materials & Applications	
09:00 – 10:15	Microelectronics to Nanoelectronics (Dr. A. Nassiopoulou, Director of Institute of Microelectronics, DEMOKRITOS, Athens, Greece)
10:15 – 11:30	Nanomaterials for energy applications (Dr. D. Niarchos, Director of DEMOKRITOS, Athens, Greece)
11:30 – 11:45	Coffee Break
11:45 – 13:00	Optical techniques, Ellipsometry, Flexible Organic Electronics (Dr. A. Laskarakis, LTFN, Physics Department, AUTH)
13:00 – 14:15	Inorganic and Organic Photovoltaics I (Prof. A. Varonides, University of Scranton, USA)
14:15 – 15:30	Lunch
15:30 – 16:45	Laser processes for the growth and patterning of nanomaterials (As. Prof. P. Patsalas, Dep. of Materials, Univ.

	of Ioannina, Greece)
16:45 – 18:00	Mechanical properties (Prof. K. Komvopoulos, Dep. of Mechanical Engineering, Univ. of California, Berkeley, USA)
18:00 – 18:15	Coffee Break
18:15 – 19:30	Visit to Lab Thin Film Technology (LTFN: PVD, UHV Lab, Nanometrology Lab)
End of Day 2	

16-18/7/2007, Attendance of the 4th INTERNATIONAL WORKSHOP ON “NANOSCIENCES & NANOTECHNOLOGIES” – NN07

Monday 16/7/2007	
Day 3	
09:00 – 12:30	<i>Session 1: Flexible Organic Electronics & Nanoelectronics</i>
12:30 – 13:30	<i>Session 2: Nanotechnology in Energy & Environment</i>
13:30 – 15:30	Lunch
15:30 – 18:30	<i>Session 3: Theoretical and Computational Modelling at the Nanoscale</i>
18:30 – 19:15	<i>Round Table: Nanotechnology in Education</i>
19:15 – 20:15	<i>Poster Session I</i>
End of Day 3	

Tuesday 17/7/2007	
Day 4	
09:00 – 13:45	<i>Session 4: Nanobiotechnology & Nanomedicine</i>
13:45 – 15:45	Lunch
15:45 – 18:00	<i>Session 5: Thin Films, Magnetic Materials & Spintronics</i>
18:00 – 19:00	<i>Poster Session II</i>
21:30	Conference Dinner
End of Day 4	

Wednesday 18/7/2007**Day 5**

09:00 – 14:15	Session 6: Nanomaterials, Nanoengineering & Nanomechanics
14:15 – 15:45	Lunch
15:45 – 16:45	Session 7: Nanotechnology Instruments & Tools
16:45 – 17:45	Session 8: Commercializing Nanotechnology
18:15 – 19:00	Round Table: Commercializing Nanotechnology
19:00 – 19:15	Closing Remarks – Discussion
End of Day 5	

End of the 4th INTERNATIONAL WORKSHOP ON “NANOSCIENCES & NANOTECHNOLOGIES” – NN07**Thursday 19/7/2007 (Supervisor of the 6th day: As. Prof. T. Choli - Papadopoulou)****Day 6: Nanoparticle Technology**

08:30 – 11:45	Visit to CPERI at CERTH Nanoparticle Technologies for Energy and Emission Control (Assoc. Prof., Director of CPERI, A. Konstantopoulos, Researcher B, Dr. Ch. Agrafiotis) Visit to Labs
Theory & Modelling at the nanoscale	
12:00 – 13:15	Probing the Nano-scale with First-Principles Calculations (Dr. L. Tsetseris, Physics Dep., AUTH and Dep. of Physics and Astronomy, Vanderbilt University, USA)
13:15 – 14:30	Structural & Electronic Properties of Nanostructures (Assoc. Prof. H. Polatoglou, Physics Dep., AUTH)
14:30 – 16:00	Lunch
16:00 – 17:15	Molecular Dynamics Simulations and Biological Macromolecules (Dr. G. Papadopoulos, Physics Dep. AUTH)
17:15 – 18:30	Inorganic and Organic Photovoltaics II (Prof. A. Varonides, University of Scranton, USA)
18:30 – 18:45	Coffee Break
Nanobiotechnology & Materials in Nanomedicine	
18:45 – 20:00	Protein biotinylation in vivo and their attachment on surfaces for biological purposes (Assoc. Prof. T. Choli – Papadopoulou, Chemistry Dep., AUTH)
20:00 – 21:15	Interactions of Nanoparticles with living cells (Prof. M. Arsenakis, Biology Dep., AUTH)
End of Day 6	

Friday 20/7/2007 (Supervisor of the 7th day: Dr. S. Kassavetis)	
Day 7: Visit to Laboratories & Scanning Probe Microscopy techniques	
09:00 – 10:15	Visit to Lab (Electron Microscopy) (Assoc. Prof. N. Frangis, As. Prof. Ch. Lioutas, Physics Dep., AUTH)
10:15 – 10:30	Coffee Break
10:30 – 12:00	SPM Techniques & Nanoeducator (Dr. S. Kassavetis, LTFN, Physics Dep., AUTH & Dr. Stanislav Leesment, NT-MDT)
12:00 – 13:00	Atomic Force Microscopy: Imaging of Polymer Nanostructures (Dr. V. Koutsos, Institute for Materials and Processes, School of Engineering and Electronics & Centre for Materials Science and Engineering, The University of Edinburgh, UK)
13:00 – 14:30	Lunch
14:30 – 15:30	Atomic Force Microscopy: Nanomechanical Measurements (Dr. V. Koutsos, Institute for Materials and Processes, School of Engineering and Electronics & Centre for Materials Science and Engineering, The University of Edinburgh, UK)
15:30 – 16:30	SPM Techniques & Nanoeducator (Dr. S. Kassavetis, LTFN, Physics Dep., AUTH & Dr. Stanislav Leesment, NT-MDT)
16:30 – 17:30	Coffee -- Certificates -- Farewell event
End of Day 7	