



7th International Conference – NN10 & 4th International Summer School – ISSION10 on Nanosciences & Nanotechnologies

“...where Sciences meet together...”

Alexandros Palace Hotel, 11-14 July 2010
Ouranoupolis, Halkidiki, Greece

Program

Sunday 11 July		
Alexandros Palace Hotel, Conference Room A		
	17:00 – 19:00	Registration to NN10 (Location Corridor of the Conference Room A)
	19:00 – 19:20	Welcome S. Logothetidis, NN10 Chairman
KL1	19:20 – 20:00 Keynote Talk	CELL MECHANICS K. Komvopoulos <i>Department of Mechanical Engineering, University of California, Berkeley, USA</i>
	21:00	Welcome Reception
Monday 12 July		
Alexandros Palace Hotel, Conference Room A		
	08:00 – 09:00	Registration to NN10 (Location Corridor of the Conference Room A)
Conference Room A		Session 1 WORKSHOP 1 – Organic Electronics - Photonics & Nanoelectronics & WORKSHOP 2 - NanoMaterials, NanoFabrication and NanoConstruction Chair:
I1.1	09:00 – 09:30 Invited	Nitride based UV Emitters and their applications Th. D. Moustakas <i>Dep. of Electrical Engineering and Physics and Centre for Photonics Research, Boston University, USA</i>
I1.2	09:30 – 10:00 Invited	Device Physics of Organic Electrochemical Transistors G. Malliaras <i>Dep. of Bioelectronics, Centre Microélectronique de Provence, Ecole Nationale Supérieure des Mines de Saint Etienne, France</i>
W1-O1.3	10:00 – 10:15	Josephson Tunnelling in Hybrid Nano-NIS Diodes: a device approach AC Varonides, M Kennedy, J Hurley and T Swartz <i>Physics & Electrical Engineering Dept, University of Scranton, Scranton PA, USA</i>

W1-O1.4	10:15 – 10:30	Obtaining High Performance OPV via Controlling Morphology of Polymer:Fullerene R. Xia ^{*1} W. C. Tsoi ¹ T. Agostinelli ¹ J-S. Kim ¹ D. D. C. Bradley ¹ J. Nelson ¹ H. Wu ² J. Peng ² Y. Cao ² Z. Feng ³ Y. Hou ³ ¹ . Experimental Solid State Physics Group, Department of Physics and Centre for Plastic Electronics, Blackett Laboratory, Imperial College London, United Kingdom ² . Institute of Polymer Optoelectronic Materials and Devices, Key Laboratory of Special Functional Materials, South China University of Technology, China ³ . Key Laboratory of Luminescence and Optical Information, Ministry of Education; Institute of Optoelectronic Technology, Beijing Jiaotong University, Beijing, China
	10:30 – 11:00	Coffee Break-Exhibition-Networking
Conference Room A		Session 2 WORKSHOP 1 – Organic Electronics - Photonics & Nanoelectronics & WORKSHOP 2 - NanoMaterials, NanoFabrication and NanoConstruction Chair:
I2.1	11:00 – 11:30 Invited	Self-Assembled Diblock-Copolymer ZnO Nanosensors A. Iliadis ^{1,2} ¹ Electrical and Computer Engineering Department, University of Maryland, College Park, Maryland 20742, USA ² Information and Communication Systems Engineering Department, University of the Aegean, Samos, Greece
I2.2	11:30 – 12:00 Invited	Nanostructured metal oxides as cathode interfacial layers for improved performance hybrid organic-inorganic optoelectronic devices Konofaos, N. Dept. of Information & Communication Systems Engineering, University of the Aegean, Karlovassi, Greece
W1-O2.3	12:00 – 12:15	Non-volatile memory device using a polymer modified nanocrystal A. Kiazaadeh ¹ , H. L. Gomes ¹ , A. R. Da Costa ² , J. A. Moreira ² , D. M. De Leeuw ³ , S. C.J. Meskers ⁴ , and A. Forner ¹ ¹ Center of Electronics Optoelectronics and Telecommunications (CEOT) ² Centro de Investigação em Química do Algarve ³ Universidade do Algarve, Campus de Gambelas, 8000-139 Faro, Portugal, ⁴ Philips Research Laboratories, Eindhoven, The Netherlands
W1-O2.4	12:15 – 12:30	Diamond Like Carbon with Ni Inclusions (DLC:Ni): A new catalyst for Carbon Nanotube Growth N.T. Panagiotopoulos ¹ , E.K. Diamanti ² , D. Gournis ² and P. Patsalas ² ¹ University of Ioannina, Department of Physics, Ioannina, Greece ² University of Ioannina, Dep. of Materials Science and Engineering, Ioannina, Greece
W1-I2.5	12:30 – 13:00 Invited	Nanomaterials and nanotechnologies for new energy applications B. Fillon CEA Liten, Grenoble, France
	13:00 – 14:00	Lunch Break
	14:00– 15:30	Poster Session I - Exhibition – Coffee – Networking The Posters will be presented on Monday and Tuesday during the Lunch Break Chair:

PARALLEL SESSIONS- CONFERENCE ROOM A & B

Parallel Session Conference Room B			Session 3 WORKSHOP 1 – Organic Electronics - Photonics & Nanoelectronics Chair:		Parallel Session Conference Room A		Session 4 WORKSHOP 2 – NanoMaterials, NanoFabrication and NanoConstruction Chair:		
W1-I3.1	15:30 – 16:00 Invited	Photonic interfaces: Laser tailoring of nanocomposites for sensor and other applications Vainos, N. <i>Dep. of Materials Science, University of Patras & Photonic Media Laboratory, National Hellenic Research Foundation-NHRF/TPCI, Greece</i>		W2-I4.1	15:30 – 16:00 Invited	Atomistic simulations of nanomaterials P.C. Kelires <i>Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Limassol-Cyprus</i>			
W1-I3.2	16:00 – 16:30 Invited	Biosensors for Detection of Pathogenic Organisms Owens, R. <i>Dep. of Bioelectronics, Centre Microélectronique de Provence, Ecole Nationale Supérieure des Mines de Saint Etienne, France</i>		W2-I4.2	16:00 – 16:30 Invited	Intrinsic stress evolution in sputtered thin films using real time multiple-beam optical stress sensor G. Abadias, A. Fillion, A. Michel, C. Jaouen <i>Institut P, Département Physique et Mécanique des Matériaux, CNRS-Université de Poitiers-ENSMA, Futuroscope-Chasseneuil, France</i>			
W1-O3.3	16:30 – 16:45	GaN Nanowires Grown by Gold Catalyst <u>B. Pécz</u> ¹ , G. Z. Radnóczí ¹ , J. P. Ahl ² , H. Behmenburg ² , C. Giesen ² , M. Heukens ² , I. Regolin ³ , W. Prost ³ , F.J. Tegude ³ ¹ MTA MFA, 1121 Budapest, Hungary ² AIXTRON AG, Kaiserstr. 98, Herzogenrath Germany ³ Solid State Electronics Department, University of Duisburg-Essen, Duisburg, Germany		W2-O4.3	16:30 – 16:45	The Effect of Correlations on the Field and Temperature Dependence of the Small Polaron Hopping Conductivity in 1D Disordered Systems <u>M. Dimakogianni</u> , G. P. Triberis <i>University of Athens, Dep. of Physics, Solid State Section, Athens, Greece</i>			
W1-O3.4	16:45 – 17:00	Charge memory effect in semiconductive InN nanodomains <u>E. Sarantopoulou</u> , Z. Kollia <i>National Hellenic Research Foundation, Athens, Greece.</i>		W2-O4.4	16:45 – 17:00	Surface Enhanced Raman Scattering Of Gold Nanostructures : Role Of Dipolar and Multipolar Localized Surface Plasmons <u>N. Guillot</u> ¹ , B. Frémaux ¹ , S. Ben Amor ¹ , H. Shen ² , O. Peron ³ , T. Toury ² , E. Rinnert ³ and M. Lamy de la Chapelle ¹ ¹ Laboratoire CSPBAT (FRE 3043), UFR SMBH, équipe LBPS, Université Paris XIII, Bobigny, France ² Laboratoire de Nanotechnologie et d'Instrumentation Optique, Institut Charles Delaunay, Université de technologie de Troyes, France ³ Service Interfaces et Capteurs, Département Recherches et Développements Technologiques IFREMER, Plouzané, France			
17:00 – 17:30		Coffee Break – Exhibition – Poster Vision – Networking							
Parallel Session Conference Room B			Session 5 WORKSHOP 1 – Organic Electronics - Photonics & Nanoelectronics Chair:		Parallel Session Conference Room A		Session 6 WORKSHOP 2 – NanoMaterials, NanoFabrication and NanoConstruction Chair:		

W1-I5.1	17:30 – 18:00 Invited	Coiled Carbon Nanotubes Damjanovic, M. <i>NanoLab, Faculty of Physics, University of Belgrade, Serbia</i>	W2-I6.1	17:30 – 18:00 Invited	L10-FePt media as candidates for ultrahigh magnetic recording storage beyond 1 Tbit/in2 V. Alexandrakis, Th. Speliotis, E. Manios and <u>D. Niarchos</u> , <i>IMS, NCSR Demokritos, Aghia Paraskevi, Attikis, Athens 15310, Greece</i>
W1-I5.2	18:00 – 18:30 Invited	Graphene and CNT-based photonics Lidorikis, E. <i>Dep. of Materials Science & Engineering, University of Ioannina, Greece</i>	W2-I6.2	18:00 – 18:30 Invited	Special graphene superlattices: new Dirac points, properties periodic in the strength of the barriers, and electron collimation P. Vasilopoulos <i>Department of Physics, Concordia University, Montreal, Quebec, Canada</i>
W1-O5.3	18:30 – 18:45	Electrical and Optical Properties of ZnO Thin Films Prepared by Pulsed Laser Deposition (PLD) Songül Fiat ¹ , Derya Bahar ¹ , Naya Korelli ² , Güven Çankaya ¹ and Michael Komppitas ³ ¹ <i>Gaziosmanpaşa University, Faculty of Arts and Science, Physics Department, Turkey</i> ² <i>School of Mechanical Engineering, National Technical University of Athens, Greece</i> ³ <i>National Hellenic Research Foundation, Theoretical & Physical Chemistry Inst., Greece</i>	W2-O6.3	18:30 – 18:45	Impact of Ti metallization and nitrogen plasma treatment on optical properties of Si-whiskers structures grown by MBE technique S.N. Svitashova, L. V. Sokolov, Yu. V. Nastaushev, F. N. Dultsev <i>Rzhanov Institute of Semiconductor Physics. Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia</i>
W1-O5.4	18:45 – 19:00	Scanning Tunnelling Spectroscopy and Topography Recovery of a Polyoxometalate-based Self-Assembled Monolayer D. Velessiotis, S. Athanasiou, A. Douvas, P. Argitis and N. Glezos <i>Institute of Microelectronics, NCSR 'Demokritos', Athens, Ag. Paraskevi, Greece</i>	W2-O6.4	18:45 – 19:00	Thermal and Mechanical Properties of Epoxy Polymers Reinforced with Carbon Nanotubes, Layered Silicates and Silica Nanostructures D.J. Giilopoulos, K.S. Triantafyllidis* <i>Dep. of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece</i>

PLENARY SESSION – CONFERENCE ROOM A

W1-I6.5	19:00 – 19:30 Plenary Talk	Nanocomposites for Energy Applications E. Giannelis <i>Dep. of Materials Science & Engineering, Cornell University, Ithaca, NY, USA</i>
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End of first day

Tuesday 13 July

Alexandros Palace Hotel

Conference Room A		Session 7 WORKSHOPS 2 - NanoMaterials, NanoFabrication and NanoConstruction 3 - Nanomedicine and Nanobiotechnology Chair:
PI7.1	09:00 – 09:30 Plenary Talk	Nanoscience, Nanotechnology, Nanomedicine L. P. Balogh <i>AA Nanotech Consulting, Editor-in-Chief, NanoMedicine: Nanotechnology, Biology and Medicine</i>
I7.2	09:30 – 10:00	Cell-materials interactions: Contractile force measurements of fibroblasts

	Invited	B. Muller Biomaterials Science Center (BMC), Universität Basel, Switzerland
I7.3	10:00 – 10:30 Invited	Nanomedicine and personalized medicine: The improvement of drug delivery outcomes by pharmacogenomics leading to pharmacotyping in clinical practice I. Vizirianakis Lab of Pharmacology, Dep. of Pharmaceutical Sciences, AUTH, Greece.
10:30 – 11:00 Coffee Break – Exhibition – Networking		
Conference Room A		Session 8: Nanomedicine in Oncology, Cardiovascular and Other disorders WORKSHOP 3 - Nanomedicine and Nanobiotechnology Chair:
W3-I8.1	11:00 – 11:30 Invited	In situ Breast Cancer Vaccine: Oncolytic and Immunomodulatory Therapy with a Novel Herpes Simplex-Type-1 (HSV-1) Virus Armed with the Ability to Degrade Prostaglandin E2 G. Kousoulas Division of Biotechnology & Molecular Medicine, Louisiana State University, Baton Rouge and Stanley S. Scott Cancer Center, Louisiana State University Health Sciences Center, New Orleans, USA.
W3-O8.2	11:30 – 11:45	Production, Stabilization and Characterization of Selected Nano-Particles for Medical Applications H. Schmid Fraunhofer-Institute for Chemical Technology (ICT), Box 1240, 76318 Pfinztal, Germany
W3-O8.3	11:45 – 12:00	Osteointegration of Micron-Nano Hydroxyapatite coated metallic (Ti6Al4V) and bioabsorbable interference screws: In vivo Analysis B. Aksakal ¹ , M. Demirel ² , M. Kom ³ , H.B. Tosun ⁴ , O. Belhan ⁴ , M. Sezer ⁵ and S. Sonmez ⁶ ¹ Firat University, Faculty of Technology, Dept. of Mech. Eng. Elazig, Turkey , ² Adiyaman University, Vocational School of Mechanics, Adiyaman, Turkey , ³ Firat University, Faculty of Veterinary, Dept. of Animal Feed. Elazig, Turkey, ⁴ Firat University, Faculty of Medicine, Dept. of Orthopedics. Elazig, Turkey , ⁵ Firat University, Faculty of Medicine, Dept. of Pathology. Elazig, Turkey, ⁶ University of Hakkari, Engineering Faculty, Dept. of Mech. Eng. Hakkari, Turkey
W3-O8.4	12:00 – 12:15	Nano-cardiology: Novel Carbon Nano-coatings/-tubes for Vascular Stent Applications V. Karagkiozaki ^{1,3} , P. Karagiannidis ¹ , E. Diamanti ² , D. Gournis ² , P. Patsallas ² , G. Giannoglou ³ , S. Logothetidis ¹ ¹ Depart. of Physics, Lab for "Thin Films -Nanosystems & Nanometrology, Aristotle University of Thessaloniki, Greece ² Depart. of Materials Science and Engineering, University of Ioannina, Greece ³ Cardiovascular Engineering and Atherosclerosis Lab, First Cardiology Department, AHEPA University Hospital, Faculty of Medicine, AUTH, Greece
W3-O8.5	12:15 – 12:30	Non-porous and porous polyvinyl-butyl nanofibers D. Lubasova ¹ , L. Martinova ¹ ¹ Technical university of Liberec, Faculty of textile engineering, Department of nonwovens, Studentska 2, Liberec, Czech Republic
12:30 – 14:30		Lunch Break During this Break the presenters of Poster Session I should remove their Posters (the latest by 13:00). The presenters of Poster Session II should place their Posters by 13:30.

PARALLEL SESSIONS

Parallel Session Conference Room A	Session 9 WORKSHOP 2 – NanoMaterials, NanoFabrication and NanoConstruction Chair:	Parallel Session Conference Room B	Session 10: Nanodiagnostics and Biosensors WORKSHOP 3 - Nanomedicine and Nanobiotechnology
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W2-I9.1	14:30 – 15:00 Invited	Novel materials and coatings for mechanical applications C. Rebholz <i>Dep. of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus</i>	W3-I10.1	14:30 – 15:00 Invited	Streamlining Genomics, Synthetic Biology and Nanobiotechnology for Cancer Drug Discovery J. Mollenhauer <i>Molecular Oncology & Lundbeckfonden Center of Excellence NanoCAN, University of Southern Denmark, Denmark</i>	
W2-O9.2	15:00 – 15:15	Analytical and Numerical Modeling of Thin Network-Reinforced Composite Shells with Applications to Carbon Nanotubes A.V. Georgiades ¹ , A.L. Kalamkarov ² , S.K. Rokkam ² , K.S. Challagulla ³ , V.P. Veedu ⁴ , M.N. Ghasemi-Nehjad ⁴ <i>1.Cyprus University of Technology, Lemesos, Cyprus 2.Dalhousie University, Halifax, Nova Scotia Canada 3.Laurentian University, Sudbury, Ontario, Canada 4.University of Hawaii at Manoa, Honolulu, Hawaii, USA</i>	W3-O10.2	15:00 – 15:15	A highly reproducible SERS detection of biomolecules using lithographed Nanoparticles : application to biosensor C. David ^a , N. Guillot ^a , H. Shen ^b , T. Toury ^b and M. Lamy de la Chapelle ^a ^a Laboratoire CSPBAT, UFR SMBH, équipe LBPS, Université Paris XIII, Bobigny, France ^b Laboratoire de Nanotechnologie et d'instrumentation Optique, Institut Charles Delaunay, Université de technologie de Troyes, Troyes, France	
W2-O9.3	15:15 – 15:30	P(VDF-TrFE)/AI203 Nanocomposite Thin Films Rachid Hadji ^a , Brice Vincent ^a , Didier Rouxel ^a and Fabrice Dos Santos ^b ^a Institut Jean Lamour - Département P2M, Université Henri Poincaré - France ^b Piezotech S.A., Hésingue – France	W3-O10.3	15:15 – 15:30	Fluorescent silica nanoparticles for enhanced bioassays J. Labégerie-Egée, H. McEvoy, B.D. MacCraith, C. McDonagh <i>School of Physical Sciences, National Centre for Sensor Research, Dublin City University, Glasnevin, Dublin 9, Ireland</i>	
W2-O9.4	15:30 – 15:45	Real time Spectroscopic Ellipsometry characterization of the formation of self-organized GaSb nanopillars I. S. Nerbo ¹ , M.Kildemo ¹ , S. Le Roy ² , E. Søndergaard ² ¹ NTNU, Realfagbygget NTNU; 7491 Trondheim,Norway ² UMR 125 Unité mixte CNRS/Saint-Gobain, Laboratoire Surface du Verre et Interfaces, France	W3-O10.3	15:30 – 15:45	Interaction of <i>Staphylococcus aureus</i> with cellulose acetate and collagen scaffolds Stefanos Pentas ¹ , Alexandros Katranidis ^{1,2} , Stella Papachristou ³ , Kostas Panayiotou ³ , Costas Tsioptas ³ , Eleni Pavlidou ⁴ , Antonis Asiminas ¹ and Theodora Choli-Papadopoulou ^{1*} , ¹ School of Chemistry, Laboratory of Biochemistry, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece ² Forschungszentrum Jülich,ISB-2: Molecular Biophysics, 52425, Jülich, Germany ³ Dep. of Chemical Engineering, Physical Chemistry Laboratory ⁴ Dep. of Physics, Electron Scanning Laboratory, AUTH, Greece	
W2-O9.5	15:45 – 16:00	Parameters of thin nanofibers membrane and they impact to sound absorption properties of material J. Mohrova, <i>Technical University of Liberec, Studentska 2, Liberec, Czech Republic</i>	W3-O10.4	15:45 – 16:00	Opportunities for Nanopatterning of Covalently Immobilised Bioactive Protein Layers Marcela MM., Bilek ¹⁾ , D.V. Bax ^{1),3)} , A. Kondyurin ¹⁾ , N.J. Nosworthy ^{1),2)} , Y. Yin ¹⁾ , D.R. McKenzie ¹⁾ , C. dos Remedios ²⁾ , A.S. Weiss ³⁾ ¹⁾ School of Physics, University of Sydney, NSW, Australia ²⁾ School of Medical Sciences, University of Sydney, NSW, Australia, ³⁾ School of Molecular and Microbial Biosciences, University of Sydney, NSW, Australia	
W2-O9.6	16:00 – 16:15	Lead nanostructures on reconstructed by indium Si(111) surfaces D.Vlachos, M. Kamaratos and S.D. Foulias <i>Department of Physics, University of Ioannina, Ioannina, Epirus, Hellas</i>	W3-O10.5	16:00 – 16:15		

16:15– 16:45 | Short Break

**Parallel Session
Conference Room A**

**Session 11
WORKSHOP 2 – NanoMaterials,
NanoFabrication and
NanoConstruction**
Chair:

**Parallel Session
Conference Room B**

**Session 12: Nanotechnology
for Unsolved Medical
Problems
WORKSHOP 3 –
Nanomedicine and
Nanobiotechnology**
Chair:

W2-I11.1	16:45 – 17:15 Invited	Nanotechnology for Life Sciences H. Heinzelmann <i>Nanotechnology & Life Sciences, CSEM Centre Suisse d'Electronique et de Microtechnique SA, Switzerland</i>	W3-I12.1	16:45 – 17:15 Invited	DermaVir pDNA/PEI-based immunotherapeutic nanomedicine for HIV/AIDS J. Lisziewicz <i>Genetic Immunity, Budapest, Hungary</i>
W2-O11.2	17:15 – 17:30	Impact of Sintering on Microstructural and Electrical Characteristics of Inkjet-Printed Silver Nanoparticles R. Cauchois ^{1,2} , M. Saadaoui ² , K. Inal ² , B. Dubois-Bonvalot ¹ , J.-C. Fidalgo ¹ ¹ Gemalto – IMT Innovation group – Avenue du Pic de Bertagne BP100 13881 Gémenos, FRANCE ² École Nationale Supérieure des Mines de St-Etienne – Centre Microélectronique de Provence Georges Charpak – 880, avenue de Mimet 13120 Gardanne, France	W3-O12.2	17:15 – 17:30	Magnetically directed Migration of Glioblastoma multiforme B. Mucha ¹ , D. Pröfrock ¹ , L. Vekas ² , M. V. Avdeev ³ , K. Lamszus ⁴ , V. M. Garamus ¹ , A. V. Feoktystov ³ , R. Willumeit ¹ ¹ GKSS Research Centre, Max-Planck-Str. 1, Geesthacht, Germany ² Center for Fundamental and Advanced Technical Research, Romanian Academy-Timisoara Division, Romania ³ Joint Institute for Nuclear Research Dubna, Russia ⁴ University Medical Centre Hamburg Eppendorf, Germany
W2-O11.3	17:30 – 17:45	Direct laser nanostructuring of the material surface by the 193 nm and 248 nm wavelength irradiation V.N. Tokarev ¹ , V.A. Shmakov ¹ , R.R. Khasaya ² , V.A. Yamshchikov ² , V.Yu. Khomich ² ¹ A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia ² Institute of Electrophysics and Energetics, Russian Academy of Sciences, Sankt-Peterburg, Russia	W3-I12.3	17:30 – 18:00 Invited	Advanced cardiac imaging and interventions in children: Role of innovations and collaborations J. Vettukatil <i>Southampton University Hospital, UK</i>
W2-O11.4	17:45 – 18:00	Diffraction from Transition Metal Chalcogenide Nanotubes I. Milosevic, T. Vukovic and M. Damjanovic <i>NanoLab, Faculty of Physics, University of Belgrade, Belgrade, Serbia</i>			

CONFERENCE ROOM A

18:15 – 18:30	Thematic Research Network – NANONET S. Logothetidis <i>Depart. of Physics, Lab for "Thin Films -Nanosystems & Nanometrology, Aristotle University of Thessaloniki, Greece</i>
18:30 – 18:45	BioNanoNet – Key Activities: Austrian Research Hub, EURO-NanoTox Andreas Falk ¹ ; Eva Roblegg ² , Eleonore Froehlich ³ , Andreas Zimmer ² , Frank Sinner ^{1,4} ¹ BioNanoNet Forschungsgesellschaft mbH, Elisabethstrasse 9-11, 8010 Graz, Austria ² Institute of Pharmaceutical Sciences/ Pharmaceutical Technology, Karl-Franzens University of Graz, Universitätsplatz 1, 8010 Graz, Austria ³ Medical University Graz, Center for Medical Research, Medical University of Graz, Austria, Stiftungtalstrasse 24, A-8010 Graz ⁴ Institute of Medical Technologies and Health Management, Joanneum Research, Elisabethstraße 11a, A- 8010 Graz, Austria
18:45 – 20:45	Debate on NanoMedicine: Unsolved Medical Problems waiting for Nanosolutions

21:30	Conference Dinner			
Wednesday 14 July				
Alexandros Palace Hotel				
Conference Room A	Session 13 Commercialisation of Nanotechnology Chair:			
I13.1 09:00 – 09:30 Invited	The European Union research work and policy in Nanosciences -Nanotechnology G. Katalagarianakis European Commission			
I13.2 09:30 – 10:00 Invited	Recent Advances in Surface Science Instrumentation High Precision local electrical Probing: Potential and Limitations for the Analysis of Nanocontacts and Nanointerconnects M. Maier ¹ , J. Koeble ¹ , D. Jie ² , N. Chandrasekhar ² , Ch. Joachim ³ , B. Günther ¹ , A. Feltz ¹ ¹ Omicron NanoTechnology GmbH, Germany ² Institute of Materials Research and Engineering (IMRE), Singapore ³ Nanosciences group, CEMES-CNRS, France			
O13.3 10:00 – 10:15	Commercialization of academic research in Nanotechnology M. Chachamidou, S. Logothetidis Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, AUTH, Thessaloniki, Greece			
O13.4 10:15 – 10:30	Nanotechnology applications in the textile industry S. Pavlidou CLOTEFI, Kallithea, Athens, Greece			
10:30-10:45	Coffee Break-Exhibition-Networking			
PARALLEL SESSIONS – CONFERENCE ROOM A & B				
Parallel Session Conference Room A	Session 14 WORKSHOP 2 – NanoMaterials, NanoFabrication and NanoConstruction Chair:	Parallel Session Conference Room B		
W2-I14.1 10:45 – 11:15 Invited	Nano-materials in architecture and art conservation Miloš Drdáký, Zuzana Slížková, Gerald Ziegenbalg Institute of Theoretical and Applied Mechanics of the Academy of Sciences of the Czech Republic, Praha 9, Czech Republic IBZ-Salzchemie GmbH & Co.KG, Freiberg, Germany	W3-I15.1 10:45 – 11:15 Invited		
W2-I14.2 11:15 – 11:45 Invited	The role of fines in ancient mortar technology I. Papagianni-Papadopoulou Dep. of Civil Engineering, Faculty of Engineering, Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece	W3-I15.2 11:15 – 11:35 Invited		
W2-O14.3 11:45 – 12:00	Influences of Nanoclays on the Flammability Behaviour of Polyamide Compounds	W3-I15.3 11:35 – 11:55		
Nanotechnology Challenges in Targeted Delivery of Biopharmaceutics C. Kiparissides Dep. of Chemical Engineering, Aristotle University of Thessaloniki & Chemical Process Engineering Research Institute, Thessaloniki, Greece				
In vivo immunotoxicity testing of nanodrugs-nanocarriers R. Urbanics In vivo Laboratory of SeroScience Ltd, Budapest, Hungary				
Dendrimer-based nanodrugs with antibacterial and antiviral activity				

		H.O. Gunduz ¹ , N.A. Isitman ² , C. Kaynak ^{1,2} ¹ Polymer Science and Technology Department, Middle East Technical University, Ankara, Turkey ² Materials and Metallurgical Engineering Department, Middle East Technical University, Ankara, Turkey		Invited Oral	P. Papaioannidou Faculty of Medicine, Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece
W2-O14.4	12:00 – 12:15	The use of Si and Ca nanoparticles in lime-based pastes M. Stefanidou ¹ , E. Pavlidou ² ¹ Civil Engineering Department, AUTH, Thessaloniki, Greece ² Physics Department, AUTH, Thessaloniki, Greece	W3-O15.4	11:55 – 12:10	In vitro Analysis and Evaluation of Hyperbranched Polylysine Nanocapsules, as a Candidate Vaccine Delivery System D.K. Toubanaki ^{1,2} , M. Agalou ¹ , E.I. Athanassiou ¹ , E.A. Lianos ² , and E. Karagouni ^{1*} ¹ Hellenic Pasteur Institute, 127 Vas. Sofias Avenue, 11521, Athens, Greece ² National and Kapodistrian University of Athens, School of Medicine, Athens, Greece
W2-O14.5	12:15 – 12:30	Nanolayers Based on Giant Magnetoresistance Effect With Multiple Applications F. Miculescu ¹ , C. Lungu ² , V. Kuncser ³ , N. Miculescu ¹ , I. Antoniac ¹ , M. Miculescu ¹ ¹ University Politehnica from Bucharest, Romania ² National Institute for Lasers, Plasma and Radiation Physics, Magurele-Bucharest, Romania ³ National Institute of Materials Physics, Magurele-Bucharest, Romania	W3-I15.5	12:10 – 12:40 Invited	The Impact of Nanopharmaceuticals on the Immune system J. Szebeni Nanomedicine Research and Education Center, Bay Zoltan Foundation for Applied Research and Semmelweis University, Faculty of Medicine, and SeroScience Ltd., Budapest, Hungary
W2-O14.6	12:30 – 12:45	Electrical Characterization of Self Assembled Monolayers on Conducting Metal Oxides O.Yildirim ^{1,2} , M.D. Nguyen ² , D. Yilmaz ¹ , M.G. Maas ² , D.N. Reinhoudt ^{1,3} , D.H.A. Blank ² , G. Rijnders ² and J. Huskens ¹ ¹ Molecular Nanofabrication Group ² Inorganic Materials Science ³ Supramolecular Chemistry & Technology MESA+Institute for Nanotechnology, University of Twente, Enschede, The Netherlands			

13:00 – 17:00

EXCURSION: Boat Trip around Mount Athos (Holy Mountain)

PARALLEL SESSIONS– CONFERENCE ROOM A & B

Parallel Session Conference Room A		Session 16 WORKSHOP 2 – NanoMaterials, NanoFabrication and NanoConstruction Chair:	Parallel Session Conference Room B		Session 17 WORKSHOP 3 - NanoMaterials, NanoFabrication and NanoConstruction Chair:
W2-I16.1	17:30 – 18:00 Invited	Laser processing of nanomaterials for applications in photonics D.C. Koutsogeorgis School of Science and Technology Nottingham Trent University Clifton campus. Nottingham, UK	W3-I17.1	17:30 – 18:00 Invited	Nanogold and the brain: In vivo multimodal imaging of the brain distribution S. Krol European Center for Nanomedicine, Fondazione I.R.C.C.S. Istituto Neurologico Carlo Besta, Italy
W2-I16.2	18:00 – 18:30 Invited	Nanomechanical testing of construction materials (concrete, cement, etc) G. Constantinides Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Lemesos, Cyprus	W3-I17.2	18:00 – 18:20 Invited Oral	Self-Assembly of Nanoparticles on Surfaces V. Koutsos†, J. Walker†, A. B. Schofield‡ †Institute for Materials and Processes, School of Engineering, The University of Edinburgh, Edinburgh, United Kingdom ‡School of Physics, The University of Edinburgh, Edinburgh, United Kingdom
W2-O16.3	18:30 – 18:45	Investigation of Parameters Affecting Planar Nanochannel Flows by Dissipative Particle Dynamics	W2-O17.3	18:20 – 18:35	Unsteady LDL Transport in Normal Human Aortic Arch

		D. Kasiteropoulou, <u>T.E. Karakasidis*</u> and A. Liakopoulos <i>Hydromechanics and Environmental Engineering Laboratory, School of Engineering, University of Thessaly, Pedion Areos, Volos, Greece</i>			J.V. Soulis ¹ , G.D. Giannoglou ² , D. Fytanidis ¹ , M. Dimitrakopoulou ¹ , V.C. Papaioannou ¹ ¹ <i>Fluid Mechanics, Demokriton University of Thrace, Xanthi, Greece</i> ² <i>AHEPA General Hospital, Cardiology Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
W2-O16.4	18:45 – 19:00	Nanostructured rocksalt $Ti_xTa_{1-x}N$: A new addition to superhard materials? L.E. Koutsokeras ^{1,2} , G. Abadias ² , Ch.E. Lekka ¹ , S. Dub ³ , and P. Patsalas ¹ ¹ <i>University of Ioannina, Dep. of Materials Science and Engineering, Ioannina, Greece</i> ² <i>Dep. Physique et Mechanique des Materiaux, Institut P-prime, CNRS-Universite de Poitiers, Futuroscope-Chasseneuil, France</i> ³ <i>Institute for Superhard Materials, NAS of Ukraine, Kiev, Ukraine</i>	W2-O17.4	18:35 – 18:50	Theoretical Modelling of proteolysis and cancer cell invasion of tissue G. Lolas, C. Charitidis, <i>National Technical University of Athens, School of Chemical Engineering, Zographos, Athens, Greece</i>
		Closing Remarks – Discussion – Awards Ceremony Conference Room A			
End of Conference					

Poster Presentations

Monday 12 July until midday on Tuesday 13 July (Location: Corridor of Conference Room A)	
	Poster Session I
	Workshop 1: Organic Electronics – Photonics & Nanoelectronics
P1-1	Fabrication and electrical characterization of molecular nanowires based on cyclodextrin host-guest systems Davide Maffeo ¹ , Viswanathan Chinuswamy ² , Zoe Pikramenou ^{3,3} Irene M. Mavridis ^{2,1} Konstantina Yannakopoulou ^{2,1*} Nikos Glezos ² ¹ <i>Institute of Physical Chemistry, NCSR “Demokritos”, Athens, Greece</i> ² <i>Institute of Microelectronics, NCSR “Demokritos”, Athens, Greece</i> ³ <i>School of Chemistry, The University of Birmingham, UK</i>
P1-2	Frequency Domain Evaluation of Nanoparticle Transport in Dielectrophoretic Microdevices D.J.G. Bakewell and A.Chichenkov <i>Dep. of Electrical Engineering and Electronics, University of Liverpool, Brownlow Hill, Liverpool, UK</i>
P1-3	Understanding the Influence of Vacancies Diffusion in Utilizing the Kirkendall Phenomenon for Nanotubes Formation Y. Ren ¹ , W. K. Chim ¹ and S. Y. Cham ² ¹ <i>NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore, Singapore</i> ² <i>Institute of Materials Research and Engineering, A*STAR (Agency for Science, Technology and Research), Research Link, 117602, Singapore.</i>
P1-4	Influence of Substrate Surface Roughness on the Performance of Polymer Bulk Heterojunction Structures M. Sendova-Vassileva ¹ , V. Bakardjieva ¹ , T. Ivanova ¹ , V. Gancheva ² , D. Tschecheva ² , P. Mokreva ² ,

	<p>L. Terlemezyan², P. Vitanov¹ ¹Central Laboratory of Solar Energy and New Energy Sources, Bulgarian Academy of Sciences, Sofia, Bulgaria ²Institute of Polymers, Bulgarian Academy of Sciences, Sofia, Bulgaria</p>
P1-5	<p>Phase transitions of metal free phthalocyanine attached to polysiloxane chain T. Makowski, A. Tracz, T. Ganicz, W.A. Stańczyk Centre of Molecular and Macromolecular Studies, Polish Academy of Science, Lodz, Poland</p>
P1-6	<p>Microstructural Investigation of Ultrathin LNO Thin Films Obtained by Chemical Solution Deposition Z.Branković¹, M. Počuća¹, G. Branković¹, S. Bernik², A. Rečnik², D. Vasiljević-Radović³ ¹Institute for Multidisciplinary Research, University of Belgrade, Belgrade, Serbia ²Dep. for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia ³IHTM – Institute of Microelectronic Technologies and Single Crystals, Belgrade, Serbia</p>
P1-7	<p>Growth mechanisms, optoelectronic and nanomechanical properties of Magnetron sputtered and Electron Beam evaporated Al-doped ZnO thin films C. Koidis¹, P. G. Karagiannidis¹, S. Kassavetis¹, K. Breza², N. A. Hastas², A. Laskarakis¹, S. Logothetidis¹, N. Vouroutzis², N. Frangis², and O. Valassiades² ¹Laboratory for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece ²Solid State Physics Section, Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece</p>
P1-8	<p>Nanocrystalline Bismuth Manganite Obtained by Mechanochemical Synthesis Z. Marinković Stanojević¹, Z. Branković¹, Z. Jagličić², M. Jagodić², L. Mančić³, S. Bernik⁴, A. Rečnik⁴, G. Branković¹ ¹Institute for Multidisciplinary Research, Belgrade, Serbia ²Institute of Mathematics, Physics and Mechanics, Ljubljana, Slovenia ³Institute of Technical Sciences SASA, Belgrade, Serbia ⁴Jozef Stefan Institute, Ljubljana, Slovenia</p>
P1-9	<p>Electron Microscopy Study of Al-doped ZnO thin films grown by Electron Beam Evaporation K. Breza, N. Vouroutzis, N. Frangis, C. Koidis, S. Logothetidis Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece</p>
P1-10	<p>The influence of fabrication parameters on the surface morphology and structure of porous Silicon I. Prosyčevas⁽¹⁾, D. Adlienė⁽²⁾, S. Mockevičienė⁽²⁾, J. Kundrotas⁽³⁾, A. Čerskus⁽³⁾ ⁽¹⁾Institute of Materials Science, Kaunas University of Technology, Kaunas, Lithuania ⁽²⁾Physics Department, Kaunas University of Technology, Kaunas, Lithuania ⁽³⁾Semiconductor Physics Institute, Vilnius, Lithuania</p>
P1-11	<p>Controlled Fabrication of 1D or Semi-2D Molecular Nanostructures and Study of Optical Properties Ravi Kumar Kanaparthi, Anunay Samanta School of Chemistry, University of Hyderabad, Prof. C.R. Rao Road, Gachibowli, Hyderabad, India</p>
P1-12	<p>To study the Electrical characteristics of LEDs based on a single organic layer Jitendra Kumar Sharma, Vivek Kant Jogi and Sanjay Tiwari S.O.S. In Electronics, Pt. Ravishankar Shukla University, Raipur (C.G.), India</p>
P1-13	<p>ZnO NWs based nanoscale devices: fabrication and applications Vivek Pachauri, Alexis Vlandas, Klaus Kern and Kannan Balasubramanian Nanoscale Diagnostics, Dept. of Nanoscale Science/Abteilung Kern, Max Planck Institute for Solid State Research, Stuttgart, Germany</p>
P1-14	<p>Thermal annealing effect on the nanomechanical properties and structure of P3HT:PCBM thin films P.G. Karagiannidis, S. Kassavetis, C. Pitsalidis and S. Logothetidis Lab for Thin Films-Nanosystems and Nanometrology, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece</p>

P1-15	Electronic Transport in Bulk Heterojunction Organic and Nanocomposite Materials for Photovoltaic and Electronic Devices <u>P. Servati</u> , ¹ B. Gholamkhass, ² S. Shambayati, ¹ S. Holdcroft, ² J. Ritchie, ¹ N. Mohseni Kiasari, ¹ J. Mertens, ¹ R. Rahman, ¹ R. Rahmannian, ¹ H. Yang, ³ F.K. Ko ³ ¹ Electrical and Computer Engineering Department, University of British Columbia, Vancouver BC, Canada ² Department of Chemistry, Simon Fraser University, Vancouver BC, Canada ³ Material Engineering Department, University of British Columbia, Vancouver BC, Canada
P1-16	Optical, surface, electrical and nanomechanical properties of roll-to-roll printed PEDOT:PSS thin films C. Koidis ¹ , D. Georgiou ¹ , C. Kapnopoulos ¹ , P. G. Karagiannidis ¹ , M. Chatzidis ¹ , S. Kassavetis ¹ , N. A. Hastas ² , A. Laskarakis ¹ , and S. Logothetidis ¹ ¹ Laboratory for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece ² Solid State Physics Section, Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece
P1-17	A simplified relation for measuring optical nonlinearities with an astigmatic (elliptic) Gaussian beam <u>G. Tsigaridas</u> ^{1,*} , C. Sotiriou ² , V. Giannetas ² and P. Persephonis ² ¹ Department of Physics and Department of Engineering Sciences, University of Patras, GR-26504 Patras, Greece ² Department of Physics, University of Patras, GR-26504 Patras, Greece
P1-18	Finite elements study of the deformation mechanisms induced during nanoindentation to barrier thin films V. Gountsidou, <u>S. Kassavetis</u> , H. Polatoglou, S. Logothetidis Physics Department, Aristotle University of Thessaloniki, Faculty of Sciences Bldg, GR-54124, Thessaloniki, Hellas

Workshop 2 – NanoMaterials, NanoFabrication and NanoConstruction	
P1-19	Nanocrystalline SmAlO₃: Preparation, Surface Properties and Magnetic Susceptibility <u>D. Petrov</u> ^{* 1} , B. Angelov ¹ , V. Lovchinov ² , P. Simeonova ² ¹ Department of Inorganic and Physical Chemistry, University of Food Technologies, Plovdiv, Bulgaria ² Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria
P1-20	Nanomechanical Properties of Friction Stir Welded AA6082-T6 Aluminum Alloy <u>E. P. Koumoulos</u> ¹ , N. Daniolos ² , D. Pantelis ² , C. A. Charitidis ¹ , ¹ National Technical University of Athens, Department of Chemical Engineering, Athens, Greece ² National Technical University of Athens, Department of Naval Architecture and Marine Engineering, Athens, Greece
P1-21	Nano-Patterning Method Using Diblock Copolymer for Scaling Phase Changing Dimension <u>Y. T. Kim</u> , G. B. Kang Korea Institute of Science and Technology, Semiconductor Material and Device Research Centre, Seoul, South Korea
P1-22	Fabrication of ZnO Nanorods using Metal Nanoparticles as Growth Nuclei A.Og. Dikovska, N.N. Nedyalkov, P.A. Atanasov Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria
P1-23	Branch-structured Monolayer-covered Glass Surfaces Showing Negligible Contact Angle Hysteresis <u>A. Hozumi</u> ¹ , D. F. Cheng ¹ , M. Yagihashi ² and M. Kato ² ¹ National Institute of Advanced Industrial Science and Technologies (AIST), Shimoshidami, Moriyama, Nagoya, Japan ² Nagoya Municipal Industrial Research Institute, Rokuban, Atsuta, Nagoya, Japan
P1-24	Influence of hydrogen partial pressure on the nanocrystalline silicon films deposited by RF magnetron sputtering at low-temperature <u>J.D. Sib</u> , F. Larbi, K. Keffif, D. Benlekehal, S. Benourdja, S. Nemmour, A. Kebab, Y. Bouizem and L. Chahed Laboratoire de Physique des Couches Minces et Matériaux pour l'Electronique, Département de Physique, Université d'Oran Es-Sénia, 3100 Oran, Algeria
P1-25	SERS optimization of gold nanocylinder arrays: Influence of the surrounding medium and application for Polycyclic Aromatic Hydrocarbons detection <u>N. Guillot</u> ¹ ,

	<p>H. Shen², S. Ben amor¹, C. David¹, O. Peron³, E. Rinnert³, T. Toury² and M. Lamy de la Chapelle¹ ¹ Laboratoire CSPBAT (FRE 3043), UFR SMBH, Université Paris XIII, Bobigny, France ² Laboratoire de Nanotechnologie et d'Instrumentation Optique, Institut Charles Delaunay, Université de technologie de Troyes, Troyes, France ³ Service Interfaces et Capteurs, Département Recherches et Développements Technologiques IFREMER, Plouzané, France</p>
P1-26	<p>Characterization of Liquid Crystals Elastomer actuated by visible light N.Torras^a K. Zinoviev^a, J. Esteve^a, J.A. Plaza^a, H. Campanella^a, C.J. Camargo^a, E.M. Campo, E.M. Terentjev^b and Y. Ji^b ^aInstituto de Microelectrónica de Barcelona IMB-CNM (CSIC), Campus UAB, Barcelona, Spain ^bCavendish Laboratory, University of Cambridge, Cambridge CB3 0HE, UK</p>
P1-27	<p>Electronic Structures of Molecular Complexes with Fullerene C60: DFT Calculation <u>D.V. Lopatin</u>, E.S. Chirkin Tambov State University, International str. 33, Russia</p>
P1-28	<p>Nanoscale patterning of phase change pillars by imprint lithography Y. T. Kim¹, E. B. Lee^{1,2}, S. H. Hong³, C. K. Kim¹, S. I. Kim¹, H. Lee³, B. K. Ju² ¹Korea Institute of Science and Technology, Semiconductor Material and Device Research Centre, Seongbuk-gu, Seoul, South Korea ²Display and Nanosystem Laboratory, College of Engineering, Korea University, Anam-dong, Seongbuk-gu, Seoul, Republic of Korea, ³Department of Materials Science and Engineering, Korea University, Seoul, Korea</p>
P1-29	<p>Synthesis and Characterization of Nanosized Titanium Oxide Doped with Iron <u>B. Babić</u>, B. Matović Vinca Institute for Nuclear Sciences, P. O. Box 522, 11000 Belgrade, Serbia</p>
P1-30	<p>Manufacture of Carbon Nanotubes by the technique of Plasma CVD <u>C. Lasorsa</u>^{1,2}, M. Pérez¹, I. Tropper¹, A. Lamagna¹, A. Boselli¹ ¹Gerencia de Área Investigación y Aplicaciones no Nucleares, Comisión Nacional de Energía Atómica, Buenos Aires, Argentina ²Universidad Tecnológica Nacional, Facultad Regional Haedo. Argentina</p>
P1-31	<p>Silica Fillers with variable morphology (from nanospheres to nanowires) <u>M. Miculescu</u>¹, M. Ghiurea², M.C. Corobeia², C. Trante¹, D. Donescu², C. Petcu² ¹University: Politehnica from Bucharest, 313 Splaiul Independentei, 060042, Bucharest, Romania ²INCDCP-ICECHIM Bucharest, 202 Splaiul Independentei, 060021, Bucharest, Romania</p>
P1-32	<p>Dependence of the Electrical Properties on the Composition of Al-based Nanolayered Contacts for GaN/AlGaN HEMTs <u>L. Kolaklieva</u>, R. Kakanakov Central Laboratory of Applied Physics, Bulgarian Academy of Sciences, Plovdiv, Bulgaria</p>
P1-33	<p>Hydrophobic Coatings based on Silica Nanoparticles - Polysiloxane for Stone Protection L. De Ferri¹, P.P. Lottici², A. Lorenzi³, A. Montenero³ ¹Earth Sciences Department, University of Modena-Reggio Emilia, Modena, Italy ²Physics Department, University of Parma, Parma, Italy ³Chemistry Department - GIAF, University of Parma, Parma, Italy</p>
P1-34	<p>Modification of Ag-PVP nanocomposites by photon irradiation J. Puišo⁽¹⁾, D. Adliené⁽¹⁾, A. Guobiené⁽²⁾, I. Prosyčevas⁽²⁾ ⁽¹⁾ Physics Department, Kaunas University of Technology, Kaunas, Lithuania ⁽²⁾ Institute of Materials Science, Kaunas University of Technology, Kaunas, Lithuania</p>
P1-35	<p>Almost absolute magnetoresistance effect in Co-Nb-Co hybrid <u>I. Aristomenopoulou</u>, D. Stamopoulos*, E. Manios, D. Niarchos and M. Pissas NCSR Demokritos, Institute of Materials Science, Athens, Greece</p>
P1-36	<p>Nanosecond Laser Ablation And Deposition Of Silicon Films <u>S.S. Yap</u>, Cécile Ladam², Wee Ong Siew³, Øystein Dahl², Turid Worren Reenaas¹ and Teck Yong Tou³</p>

	<p>¹Department of Physics, Norwegian University of Science and Technology, Trondheim, Norway ²SINTEF Materials and Chemistry, Trondheim, Norway ³Faculty of Engineering, Multimedia University, Cyberjaya, Selangor, Malaysia</p>
P1-37	<p>Mechanical Characteristics of Plasma-induced Nano-Roughness and Nano-Texture on PMMA and other Polymers A. Kumar¹, D. Kontziamasis¹, A. Tserepi¹, E. Gogolides¹, A. Skarmoutsou², C.A. Charitidis² ¹ Institute of Microelectronics, National Center for Scientific Research Demokritos, Athens, Greece. ² School of Chemical Engineering National Technical University of Athens, Greece</p>
P1-38	<p>Characteristics of Electrochemically deposited Nanostructured Ni_xCo_yMo_z Alloy M. Spasojević¹, A. Maričić², L. Ribić-Zelenović¹, J. Mladenović¹ ¹ Faculty of Agronomy Čačak, Čačak, Serbia ² Technical Faculty Čačak, Čačak, Serbia</p>
P1-39	<p>Impact of Crystal Phase Content on the Mechanical Properties of Glass-Ceramic Materials P. Kavouras^{1,2}, C.A. Charitidis³, E.P. Koumoulos³ and Th. Kehagias^{1,*} ¹ Aristotle University of Thessaloniki, Department of Physics, 54124 Thessaloniki, Greece ² Technological & Educational Inst. of Thessaloniki, School of Applied Sciences, Thessaloniki, Greece ³ National Technical University of Athens, School of Chemical Engineering, Zographos, Athens, Greece</p>

END OF POSTER SESSION I

Tuesday midday 13 July until Wednesday 14 July (Location: Corridor of Conference Room A)

	<p>Poster Session II</p> <p>Workshop 2 – NanoMaterials, NanoFabrication and NanoConstruction</p>
P2-1	<p>Fabrication of InP Nanopillars and Nanopores in NaCl Solution Zhankun Weng^{a*}, Jia Xu^a, Lanjiao Liu^a, Cuiting Wu^b, Haiyan Pan^a, Hao Song^a, Zhengxun Song^a, Zhen Hu^a, Zuobin Wang^{a*} ^a CNM & IJRCNB, Changchun University of Science and Technology, Changchun, China ^b Software Department, Beijing City University, Beijing, China</p>
P2-2	<p>Dispersion and Stability of Alumina Nanoparticles in Aqueous Solutions Van Son Nguyen^a, Rachid Hadji^a, Didier Rouxel^a, Brice Vincent^a and Yves Fort^b ^a Institut Jean Lamour, Université Henri Poincaré, Vandoeuvre-les-Nancy Cedex, France ^b SOR-SRSMC, UMR CNRS, Université Henri Poincaré-Nancy, Faculté des sciences et techniques, Boulevard des aiguillettes, Vandoeuvre-les-Nancy Cedex, France</p>
P2-3	<p>Synthesis and characterization of (Ba, Yb) doped ceria electrolytes B. Matovic , B. Babic, M. Rosic, J. Dukic, A. Radosavljevic-Mihajlovic, S. Boskovic Institute of Nuclear Science Vinca, University Belgrade, P.O. Box 522, 11000 Belgrade, Serbia</p>
P2-4	<p>Influence of Carbon Nanotubes on Crystallization of Polyethylene M. Seyhan¹, N. Baysal¹ and R. Ozisik² ¹ Dep. of Chemical Engineering, Yeditepe University, Istanbul, Turkey ² Dep. of Materials Science and Engineering, Rensselaer Polytechnic Institute, Troy, USA</p>
P2-5	<p>Oxide nanostructures: improvement to IT-SOFCs and gas sensors A.G. Leyva (1), J.Sacanell (1), D.Lamas (2), D.Rodriguez (1) (1) Comisión Nacional de Energía Atómica, CAC, Buenos Aires, Argentina (2) Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Buenos Aires, Argentina</p>
P2-6	<p>Fabrication and Properties of anodic oxidation film on aluminium alloy 6061-T6 Tsung-Chieh Cheng*, Chen-Chang Yang</p>

	<i>Dep. of Mechanical Engineering, National Kaohsiung University of Applied Sciences, Kaoshiung City, Taiwan</i>
P2-7	Surface hardening and glassification of thin polydimethylsiloxane films with VUV laser light E. Sarantopoulou, Z. Kollia, A. C. Cefalas <i>National Hellenic Research Foundation, Athens, Greece</i>
P2-8	Artificial Membrane Constructed by one-dimensional Nanostructure using DNA Origami <u>Ian C. Robertson</u> ² , Ken Uchida ^{2,3} and Shunri Oda ^{1,2,3} ¹ <i>Quantum Nanoelectronics Research Center, Tokyo Institute Of Technology, Tokyo, Japan</i> ² <i>Physical Electronics, Tokyo Institute Of Technology, Tokyo, Japan</i> ³ <i>JST SORST, Tokyo, Japan, Okayama Meguro-ku Tokyo, Japan</i>
P2-9	Temperature Influence on the Optical and Structural properties of NiO Thin Films obtained by Metallic Ni Oxidation Process E. Budianu, M. Purica, F. Comanescu, M. Danila <i>National Institute for R&D in Microtechnologies, Bucharest, Romania</i>
P2-10	Luminescence response of rare-earth oxide nanomaterials D.Mohanta, M. Devi, and N. Paul <i>Nanoscience Laboratory, Tezpur University, PO Napaam, Assam, India</i>
P2-11	Influence of Deposition Parameters on Self-assembled Ag-Co Core-shell Nanoparticles A.D. Crisan ¹ , M. Angelakeris ² , K. Simeonidis ² , O. Crisan ¹ ¹ <i>National Institute for Materials Physics, Bucharest, Romania</i> ² <i>Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
P2-12	Growth of AlN-based Nanocomposites Grown by Pulsed Laser Deposition and Sputtering and the effect of post-growth thermal annealing H. Zoubos ¹ , A. Siozios ¹ , G. Vourlias ² , G. Stergioudis ² , and P. Patsalas ^{1,2} ¹ <i>University of Ioannina, Department of Materials Science and Engineering, Ioannina, Greece</i> ² <i>Aristotle University of Thessaloniki, Department of Physics, Thessaloniki, Greece</i>
P2-13	A Novel Catalyst for the Electrochemical Reduction of Benzaldehyde Č. Lačnjevac ¹ , L. Ribić-Zelenović ² , D. Đukić ² , M. Spasojević ² ¹ <i>Faculty of Agriculture, Nemanjina 6, Belgrade, Serbia</i> ² <i>Faculty of Agronomy Čačak, Cara Dušana 34, Čačak, Serbia</i>
P2-14	Encapsulation of nanoparticles by coaxial electrospinning K.Vodseďáková <i>Studentská 2, Liberec 461 17, Czech Republic</i>
P2-15	Synthesis of AlN-TiN nanocomposite by mechanochemical processing H.AminiMashhadi ¹ , P.Manikandan ² , S.Tanaka ² , K.Hokamoto ² ¹ <i>Graduate School of Science and Technology, Kumamoto University, Kurokami, Kumamoto, Japan</i> ² <i>Shock wave and Condensed Matter Research Center, Kumamoto University, Japan</i>
P2-16	“Explosive” Percolation as a Tool of Examining Discontinuous Phenomena in Nanotechnology P. Giazitzidis ¹ , N. Mpastas ¹ , K. Kosmidis ¹ and P. Argyrakis ¹ ¹ <i>Department of Physics, University of Thessaloniki, 54006, Thessaloniki, Greece</i>
P2-17	Electron Microscopy Study of Anodic Porous Alumina Fabricated on Si (100) Substrates by Electrochemistry E. Stavrinidou ¹ , K. Breza ¹ , N. Frangis ¹ , V. Gianneta ² and A. G. Nassiopoulos ² ¹ <i>Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece</i> ² <i>IMEI/NCSR Demokritos, Terma Patriarchou Grigoriou, Aghia Paraskevi, 153 10 Athens, Greece</i>
P2-18	Brush Painted Ba Hexaferrite Films Doped with La G. Litsardakis and P. Nikolaki <i>Dept. of Electrical & Computer Engineering and Graduate Programme in Processes and Technology of Advanced Materials, Thessaloniki, Greece</i>
P2-19	Hybrid TEOS/colloidal silica/TiO₂/PDMS composites for stone consolidation

	L. Kalogerakis, A. Verganelaki, C. Kapridaki, A. Gotsis, P. Maravelaki <i>Department of Sciences, Laboratory of Analytical and Environmental Chemistry, Polytechniopolis, Chania, Crete, Greece</i>
P2-20	Titania-silica sol-gel bactericide coatings on marble C. Kapridaki, P. Maravelaki <i>Department of Sciences, Laboratory of Analytical and Environmental Chemistry, Polytechniopolis, Chania, Crete, Greece</i>
P2-21	Optical Spectroscopy Investigation of Sol-gel Deposited Al-doped ZnO Films R. Plugaru ^{a)} , M. Purica ^{a)} , F. Comanescu ^{a)} , S. Mihaiu ^{b)} , A. Toader ^{b)} ^{a)} <i>National Institute for Research and Development in Microtechnologies-IMT Bucharest, P.O. Box 38-160, 023573 Bucharest, Romania</i> ^{b)} <i>Institute of Physical Chemistry "I.G. Murgulescu" Romanian Academy, Spl. Independentei 202, 060021 Bucharest, Romania</i>
P2-22	Morphology and devices properties of Picene films grown by Supersonic Molecular Beams L. Quazuguel ^a , C. Fasoli ^a , S. Iannotta ^b , M. Toneyzzer ^a and T. Toccoli ^a ^a <i>IFN-CNR, Via alla Cascata 56/C, Povo di Trento Italy</i> ^b <i>IMEM-CNR, Parco Area delle Scienze, Parma, Italy</i>
P2-23	Microelectrode surface patterning by nanosphere lithography A. Tsigara, A. Benkhial, E. Dempsey <i>Microsensors for Clinical Research and Analysis, Centre for Research in Electroanalytical Technology Department of Science, Institute of Technology Tallaght Dublin, Dublin 24 Ireland</i>
P2-24	ZnO nanowires on C microfiber architecture as flexible gas sensor M. Toneyzzer ^{1,2,3,4,5,*} , R.G.Lacerda ² ¹ <i>Dipartimento di Fisica, Università di Trento, Via Sommarive 14, I-38100 Povo Trento, Italy</i> ² <i>Laboratorio de Nanomateriais, Departamento de Física, Universidade Federal de Minas Gerais, Av. Antonio Carlos 6627, 30123-970 Belo Horizonte MG (Brazil)</i> ³ <i>Fondazione Bruno Kessler, Via Sommarive 18, I-38050 Povo Trento, Italy</i> ⁴ <i>IFN-CNR Trento Division, Institute of Photonics and Nanotechnology Via alla Cascata 56/C, 38123 Trento, Italy</i> ⁵ <i>TASC National Laboratory IOM-CNR, S. S. 14 km 163, 5, I-34012 Basovizza, Italy</i>
P2-25	Optical, surface, electrical and nanomechanical properties of roll-to-roll printed PEDOT:PSS thin films C. Koidis ¹ , C. Kapnopoulos ¹ , P. G. Karagiannidis ¹ , M. Chatzidis ¹ , S. Kassavetis ¹ , N. A. Hastas ² , A. Laskarakis ¹ , and S. Logothetidis ¹ ¹ <i>Laboratory for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece</i> ² <i>Solid State Physics Section, Physics Department, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece</i>
P2-26	TEM studies in K₂Bi₈Se₁₃ nano-composites prepared by Ball Milling M. Ioannou(1), E. Hatzikraniotis(2), K. Chrissafis(2), Ch. B. Lioutas(2), D.Y. Chung(3), K.M. Paraskevopoulos(2) and Th. Kyrtatsi(1) (1) <i>Department of Mechanical and Manufacturing Engineering, University of Cyprus, 1678 Nicosia, Cyprus</i> (2) <i>Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece</i> (3) <i>Materials Science Division, Argonne National Laboratory, Argonne IL 60439, USA</i>
P2-27	Nanomechanical characterization of cement based pastes enriched with Si nanoparticles I. Zyganitidis ¹ , M. Stefanidou ² , S. Logothetidis ¹ ¹ <i>Laboratory for Thin Films Nanosystems and Nanometrology, Physics Department, Aristotle University of Thessaloniki, Greece</i> ² <i>Laboratory of Building Materials, Department of Civil Engineering, Aristotle University of Thessaloniki, Greece</i>
Workshop 3 – NanoMedicine and NanoBiotechnology	
P2-28	Studies of Molecular Dynamics in Poly (Propylene Oxide) Amines Intercalated in Clay A. Panagopoulou [*] , K. Vartzelis-Nikakis [*] , S. Kripotou [*] , A. Kyritsis [*] , P. I. Xidas ^{**} and K. S. Triantafyllidis ^{**}

	<p>[*] Dep. of Physics, National Technical University of Athens, Zografou Campus, Athens, Greece ^{**} Dep. of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</p>
P2-29	<p>Nanowire Field Effect Transistor Type Biosensor for Prostate-Specific Antigen Detection Y. T. Kim¹, G. B. Kang^{1,2}, S. M. Kwon^{1,2} ¹ Korea Institute of Science and Technology, Semiconductor Material and Device Research Centre, Seongbuk-gu, Seoul, South Korea ² Korea University, School of Electrical Engineering, 411 Engineering Building, Anam-dong Seongbuk-Gu, Seoul, South Korea</p>
P2-30	<p>A Raman study of MMP2 and MnSOD, two pathology biomarkers C. David^a, C. D'Andrea^b, B. Fazio^b, O. M. Maragò^b, P. G. Gucciardi^b, and M. Lamy de la Chapelle^a ^a Laboratory CSPBAT, UFR SMBH, University Paris 13, 74 rue Marcel Cachin, Bobigny, France ^b CNR Istituto per i Processi Chimico-Fisici, sez. Messina, MESSINA, Italy</p>
P2-31	<p>Nanosized Sol-Gel Titania Drug Reservoirs for Epilepsy Treatment: Physical Properties and Phenytoin Release T. Lopez^{1,2}, K. Espinoza², A. Kozina², A. Galano², R. Alexander-Katz³ and D. Bersani¹, I.-G. Marino⁴, P.P. Lottici⁴ ¹ Universidad Autónoma Metropolitana-Xochimilco, Dto. Atención a la Salud, Coyoacán, México ² Lab de Nanotecnología para Medicina, Instituto Nacional de Neurología y Neurocirugía 'MVS', México ³ Departamento de Física, UAM-Iztapalapa, México ⁴ Physics Department, University of Parma, Parma, Italy</p>
P2-32	<p>Bacterial Biosynthesis of Hydroxyapatite on Zirconium Alloys L. Pramatarova^a, R. Sammons^b, R. Dimitrova^c, A. Wang^b, E. Pecheva^a, T. Hikov^a, D. Fingarova^a, A. Wright^d, W. Palin^b, J. Wilson^b, L. Macaskie^e, P. Yong^{e,f}, T. Spassov^g ^a Georgi Nadjakov Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria ^b School of Dentistry, University of Birmingham, Birmingham, UK ^c Institute of Organic Chemistry with Phytochemistry, Bulgarian Academy of Science, Sofia, Bulgaria ^d School of Chemistry, University of Birmingham, Birmingham, UK ^e School of Biosciences, University of Birmingham, Birmingham, UK ^f School of Metallurgy and Materials, University of Birmingham, Birmingham, UK ^g Faculty of Chemistry, University of Sofia, Sofia, Bulgaria</p>
P2-33	<p>Coating and functionalization of magnetic nanoparticles for biomedical applications I.Antoniad, D.Laptoiu², R.Marinescu², M.Miculescu¹, A.Antoniad¹, C.Petcu³ ¹University: Politehnica from Bucharest, Bucharest, Romania ² Colentina Clinical Hospital, Orthopaedic Department, Bucharest, Romania ³ INCDCP-ICECHIM Bucharest, Bucharest, Romania</p>
P2-34	<p>Nanosensors Based on Biosilicated Quantum Dot – Enzyme Conjugates R. Buiculescu, M. Hatzimarinaki, N.A. Chaniotakis Laboratory of Analytical Chemistry, Department of Chemistry, University of Crete, Greece</p>
P2-35	<p>Biocomposites for biodegradable implants – synthesis and characterisation A.Robu, D.Laptoiu², R.Marinescu², F.Miculescu¹, I.Antoniad¹, D.Trante¹, I.Stancu¹ ¹University: Politehnica from Bucharest, 313 Splaiul Independentei, 060042, Bucharest, Romania ² Colentina Clinical Hospital, Orthopaedic Department, Bucharest, Romania</p>
P2-36	<p>Synthesis, Characterization and Antitumoral Activity of the Platinum(II) Complex with O,O'-Dibutyl-Ethylenediamine-N,N-Di-(S,S)-2-(4-Methyl)-Pentanoate Ligand Jelena M. Vujić^a, Marija Milovanović^b, Vladislav Volarević^b, Nebojša Arsenijević^b, Srećko R. Trifunović^c ^a Faculty of Agronomy, University of Kragujevac, Čačak, Serbia ^b Center for Molecular Medicine, Faculty of Medicine, University of Kragujevac, Kragujevac, Serbia ^c Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia</p>
P2-37	<p>Microstructural characterization and animal testing of some experimental nanocomposites for dentistry A.Antoniad, M.Moldovan², C.Sarosi², D.Robu¹, I.Antoniad¹, R.Istrate³</p>

	¹ University Politehnica from Bucharest, Bucharest, Romania ² UBB-ICCR Cluj Napoca, Romania ³ MED4MED Bucharest, Romania
P2-38	Hypericum perforatum L Extracts as Potential Natural Antifungal Preservatives Pavle Mascovic ¹ , Milica Cvijovic ¹ , Slavica Solujic ² and Violeta Ninkovic ³ ¹ Faculty of Agronomy, University of Kragujevac, Čačak ² Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac ³ Public Health Institute, Kragujevac, Serbia
P2-39	Electrochemical microfluidic sensor for biosensing applications A.Tsigara ^{1,2} , A. Benkhial ^{1,2} , O. Worsfold ³ , F. Akkari ¹ , E. Dempsey ^{1,2} ¹ MiCRA-Microsensors for Clinical Research and Analysis, Department of Science, Institute of Technology Tallaght Dublin, Dublin, Ireland ² CREATE-Centre for Research in Electroanalytical Technology, Department of Science, Institute of Technology Tallaght Dublin, Dublin, Ireland ³ Business Development Directorate, Stephenson Building, Newcastle University, Newcastle Upon Tyne, U.K.
P2-40	Comparison study of urea- and heat- induced denaturation of a1, a2 and a3 domains of von Willebrand factor using molecular dynamics techniques implemented on the HellasGrid Infrastructure Stefanos Pentas ¹ , Lampros Mountrakis ² , Paschalis Korosoglou ² , Georgios Papadopoulos ³ 1. Department of Physics of condensed matter, Laboratory of Thin Films Nanosystems and Nanometrology, Aristotle University of Thessaloniki 2. Grid and HPC Operations Center, Aristotle University of Thessaloniki 3. Department of Biochemistry & Biotechnology, University of Thessaly, Greece
P2-41	Synthesis and Characterisation of Conductive DNA-templated Polymer Nanowires Mahdi M. Almaky*, Benjamin R. Horrocks* and Andrew Houlton* *Chemical nano-science laboratory, School of Chemistry, Newcastle University. NE1 7RU. UK
P2-42	Studies Concerning the Utilizations of Cantilever Beams in Bio Applications Loredana Draghiciu, Mihaela Carp, Raluca Müller, Adrian Dinescu, Alina Cismaru, Mihai Danila, Victor Damian* National Institute for R&D in Microtechnologies (IMT- Bucharest, Romania) *INCDFLPR, Bucharest, Romania
P2-43	The lymphatic vascular system in lymphangiogenesis, invasion and metastasis. A theoretical approach G. Lolas, C. Charitidis, National Technical University of Athens, School of Chemical Engineering, Athens, Greece
P2-44	Nanolocalization of Features in the Patterns Produced by Four-beam Laser Interference Lithography Zhen Hu*, Guowei Xiu, Jia Xu, Zhengxun Song, Zhankun Weng, Zuobin Wang* CNM & IJRCNB, Changchun University of Science and Technology, Changchun, China
P2-45	Synthesis of iron oxides nanoparticles for biomedical applications M. Filippouli ^a , A. Kotoulas ^a , G. Vourlias ^a , N. Vouroutzis ^a , M. Angelakeris ^a , O. Kalogirou ^a , D. Zamboulis ^b , E. Pavlidou ^a ^a Department of Physics, Aristotle University, Thessaloniki, Greece ^b Department of Chemistry, Aristotle University, Thessaloniki, Greece
P2-46	Synergistic Antitumoral Effect of Chemotherapeutic Agents and HSV-Tk/GCV Gene Therapy Mediated by Albumin-Associated Nanosystems H. Faneca, S. Amaral and M.C. Pedroso de Lima Center for Neuroscience & Cell Biology & Dep. of Life Sciences, University of Coimbra, Portugal
P2-47	Structural and magnetic studies of silica-coated magnetic nanoparticles: potential candidates for magnetic hyperthermia treatment Chatzipavlidis A ^{1,2} , Bilalis P2, Boukos N2, Mitrikas G2, Kordas G2 and Charitidis CA1 1. National Technical University of Athens, School of Chemical Engineering, Greece

	<i>2. Institute of Material Science, NSCR 'Demokritos', Athens, Greece</i>
P2-48	<p>Patterned nanofibrous layers <u>J. Chvojka</u>, D. Lukas, P. Mikes <i>Technical university of Liberec, Faculty of textile engineering, Department of nonwovens, Studentska 2, Liberec, Czech Republic</i></p>
P2-49	<p>Biological Evaluation of Nanocoatings: Analysis of their Cytotoxicity and Cell Proliferation <u>P. Kavatzikidou</u>¹, S. Kassavetis¹, S. Logothetidis¹, P. Patsalas², E. Pavlidou³, Th. Choli-Papadopoulou³ ¹ Aristotle University of Thessaloniki, Department of Physics, Laboratory for Thin Films – Nanosystems and Nanometrology, Thessaloniki, Greece ² University of Ioannina, Department of Materials Science and Engineering, Ioannina, Greece ³ Aristotle University of Thessaloniki, Department of Physics, Thessaloniki, Greece ⁴ Aristotle University of Thessaloniki, Department of Chemistry, Biochemistry Lab, Thessaloniki, Greece</p>
P2-50	<p>Electrical sensing of sugars based on electrochemically functionalized single wall carbon nanotubes <u>T. Kurkina</u>¹, A. Vlandas¹, A. Ahmad¹, K. Kern^{1,2} and K. Balasubramanian¹ ¹ Max-Planck-Institute for Solid State Research, Heisenbergstrasse 1, Stuttgart, Germany. ² Institut de Physique de la Matière Condensée, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland</p>
P2-51	<p>Structural and Magnetic Hyperthermia Features of Iron Oxide Nanoparticles <u>A. Kotoulas</u>^a, E. Gkanas^a, K. Simeonidis^a, M. Angelakeris^a, C. Dendrinou-Samara^b and O. Kalogirou^a ^a Department of Physics, Aristotle University, GR-54124 Thessaloniki, Greece ^b Department of Chemistry, Aristotle University, GR-54124 Thessaloniki, Greece</p>
P2-52	<p>Hyperthermia Response of Iron Oxide Nanoparticles taken up by Cancer Cells <u>E. Gkanas</u>^a, M. Koureta^c, A. Kotoulas^a M. Angelakeris^a, K. Chlichlia^c A. Dendrinou-Samara^b, Th. Samaras^a and O. Kalogirou^a ^a Department of Physics, Aristotle University, GR-54124 Thessaloniki, Greece ^b Department of Chemistry, Aristotle University, GR-54124 Thessaloniki, Greece ^c Department of Molecular Biology and Genetics, Democritus University of Thrace, GR-68100 Alexandroupolis, Greece</p>
P2-53	<p>Synthesis and characterization of NiFe₂O₄ core shell nanoparticles <u>Th. Kalampaliki</u>^b, M. Darda^a K. Simeonidis^b, M. Angelakeris^b, C. Dendrinou-Samara^a ^a Department of Chemistry, Aristotle University, GR-54124 Thessaloniki, Greece ^b Department of Physics, Aristotle University, GR-54124 Thessaloniki, Greece</p>
P2-54	<p>Carbon Nanotubes with Wall-Encapsulated Magnetic Particles as Potential Drug Carriers for Directed Delivery <u>George N. Karanikolos</u>¹, Eleni Vermisoglou¹, George Pilatos¹, Eamon Devlin², Nick K. Kanellopoulos¹ <i>Institutes of ¹Physical Chemistry and ²Materials Science, Demokritos National Research Center, Athens 15310, Greece</i></p>
P2-55	<p>The unveiling of Nanoscale Imaging for Human Blood Cells probing <u>V. Karagkiozaki</u>¹, S.Logothetidis¹, E.Verrou², K.Zervas² ¹ Department of Physics, Lab for "Thin Films -Nanosystems & Nanometrology", Aristotle University of Thessaloniki, GR-54124, Greece. ² Hematology Department Theagenion Cancer Center, Thessaloniki, Greece</p>
P2-56	<p>Computational biomechanics of vascular stent on small size scales <u>I. Zygantidis</u>¹, V. Karagkiozaki¹, G. Savvaidis², S. Logothetidis¹ ¹.Laboratory for Thin Films Nanosystems and Nanometrology, Physics Department, Aristotle University of Thessaloniki, Greece ².Laboratory of Machine Elements and Machine Design, Mechanical Engineering Department, Aristotle University of Thessaloniki, Greece</p>
P2-57	<p>Academic Entrepreneurship: The Case of Nanomedicine <u>A. Papadopoulou</u>, M. Chachamidou, S. Logothetidis <i>Aristotle University of Thessaloniki, Department of Physics, Laboratory for Thin Films – Nanosystems and Nanometrology, GR-54124, Thessaloniki, Greece</i></p>

END OF POSTER SESSION II