

ORAL PRESENTATIONS PROGRAM

Tuesday 4 July Porto Palace Conference Centre & Hotel

08:00 – All Day

Registration to NN17

09:00– 09:15

Welcome & Opening remarks

S. Logothetidis (NN17 Chairman)

Room: Crystal Hall

09:15 – 09:45 Keynote Talk

Deposition and photonic processing of metal oxide thin films for low temperature electronics

W. Cranton, Sheffield Hallam University

Parallel Session

WS1 Session: Photonics I –Optical Interconnects

Chair: P. Bakopoulos, D. Kalavrouziotis

Room: Crystal Hall

09:45-10:15 Invited

From Fabric to Chip: Advances in system embedded photonics in modern data centre environments

R. Pitwon, Seagate Systems Ltd, United Kingdom

10:15-10:45 Invited

Polymer-based Hybrid Photonic Components for Next-Generation Data Center and Wireless Networks

D. de Felipe Mesquida, Fraunhofer Heinrich-Hertz-Institut, Germany

10:45-11:00

Hybrid graphene – quantum dot phototransistors for video frame rate applications

I. Nikitskiy ICFO - The Institute of Photonic Sciences, Spain

Parallel Session

WS2 Session: Thin Films I

Chair: Prof. P. Keliris

Room: Dock Six I

09:45-10:15 Invited

Compositional and epitaxial strain dependence of functional properties in perovskite thin films obtained by laser techniques

M. Dinescu

National Institute of Physics and Nuclear Engineering - NIPNE, Romania

10:15-10:30

Sol-gel Processed Niobium-doped Titanium Dioxide as Substitute for Indium Tin Oxide in Transparent Conductive Coatings

M. Skof

Nat. Structural Integrity Research Centre (NSIRC), UK

10:30-10:45

Hyperuniform Disordered Structures for Phonon Guiding

G. Gkantzounis, University of Surrey, UK

10:45-11:00

Optical Spectroscopy of Some Metallic Tribolayers

A. Mailian, Institute for Informatics, Armenia

Parallel Session

Joined Session of ISFOE17 and W5: GRAPHENE I

Chair: G. Deligeorgis

Room: Dock Six 2

09:30-10:00 Invited

Graphene and related materials for perovskite solar cells

Aldo di Carlo, University of Rome Tor Vergata, Italy

10:00-10:15

Quasi-Particle Method Approach for Two-Phonon Raman Scattering Intensity in Graphene

S. Melkonyan, Yerevan State University, Armenia

10:15-10:30

All-Carbon supra-structures: fullerene decorated carbon nanotubes

R. Yerushalmi –Rozen, Eng.Ben-Gurion University of the Negev, Israel

10:30-10:45

In-Situ and Real-Time Spectroscopic Ellipsometry monitoring of Graphene growth by Chemical Vapour Deposition

A. Laskarakis

Nanotechnology Lab LTFN, Greece

10:45-11:00

Graphene-based batteries to improve the efficiency of the existing Technologies

González Teresa Raquel, GrapheneTech S.L, Spain

11:00–11:30

Coffee Break-Exhibition-Networking

POSTER SESSION I:

All participants of Workshops 1,2 (1-30),4, 5 should put their Posters to the NN17 Poster Area on Tuesday, 4 July and will remain until Thursday 6 July (Lunch Break).

Room: Grand Pietra Hall

BUSINESS FORUM 1

SESSION 11:30-13:30

<p>11:30 – 12:00 Keynote Talk Photonic Integration: bridging technology push with industry needs... with technology transparent layout and functional design R. Broeke, Bright Photonics BV, The Netherlands</p>		
<p>Parallel Session WS1 Session: Photonics II- Photonic ICs <i>Chair: R. Pitwon, P. Bakopoulos</i> <i>Room: Crystal Hall</i></p>	<p>Parallel Session WS2 Session: Thin Films II <i>Chair: M. Dinescu</i> <i>Room: Dock Six I</i></p>	<p>Parallel Session Joined Session of ISFOE17 and W5: GRAPHENE II <i>Chair: Prof. P. Keliris</i> <i>Room: Dock Six 2</i></p>
<p>12:00 – 12:30 Invited Open access to Photonic IC development K. Lawniczuk, Eindhoven University of Technology, Netherlands</p>	<p>12:00 – 12:30 Invited Metal Oxide Thin Films Grown by Atomic Layer Deposition and Chemical Solution Deposition for Advanced Energy Applications M.E Pemble, University College Cork, Cork, Republic of Ireland</p>	<p>12:00-12:30 Invited Advances in 2D material electronics G. Deligeorgis, FORTH IESL, Greece</p>
<p>12:30-13:00 Invited CMOS-compatible III-V on silicon laser technology C. Caër, IBM Research – Zurich Research Laboratory, Switzerland</p>	<p>12:30-12:45 Mechanical Properties of Nanostructured Mo-B-C Thin Films V. Buršíková, Masaryk University, Czech Republic</p>	<p>12:30-13:00 Invited Control of Exciton States and Valley Polarization in Single Layers of Transition Metal Dichalcogenides G. Kioseoglou, University of Crete, Greece</p>
	<p>12:45-13:00 Modulating an electron barrier at ITO/organic semiconductor junctions via molecular adsorption and its effect on organic solar cells performance H. Sasson, Ben-Gurion University of the Negev, Israel</p>	
<p>13:00-13:30 Invited Scalable silicon transmitters P. Petropoulos, University of Southampton, United Kingdom</p>	<p>13:00-13:15 Elastodynamic analysis of viscoelastic anisotropic solid with nano-cavities G. Vasilev, University of Architecture, Bulgaria</p>	<p>13:00-13:15 WSe2 Light-Emitting van der Waals Heterostructures in Magnetic Fields J. Binder L. National des Champs Magnetiques Intenses, France</p>
	<p>13:15-13:30 Company Presentation Bringing answers to the surface: Laser scanning confocal microscopy Olympus Optical Microcope</p>	<p>13:15-13:30 Two dimensional transition metal chalcogenides and reduced graphene oxide hybrids for Supercapacitor applications C. Sekhar Rout, Indian Institute of Technology Bhubaneswar, India</p>

13:30 – 15:00

Lunch Buffet Break
Room: Grand Pietra Hall

Poster Session I (DAY 1) - Exhibition – Networking

All participants of Workshops 1,2 (1-30),4, 5 should put their Posters to the NN17 Poster Area on Tuesday, 4 July and will remain until Thursday 6 July (Lunch Break).
Room: Grand Pietra Hall

SESSION 15:00-17:30

<p>Parallel Session WS1 Session: Photonics II I- Emerging technologies and applications <i>Chair: C K. Lawniczuk, D. Kalavrouziotis</i> <i>Room: Crystal Hall</i></p>	<p>Parallel Session WS2 Session: Thin Films III <i>Chair: M.E Pemble</i> <i>Room: Dock Six I</i></p>	<p>Parallel Session Joined Session of ISFOE17 and W5: GRAPHENE III <i>Chair: E. M. Pechlivani</i> <i>Room: Dock Six 2</i></p>
<p>15:00-15:30 Invited High performance biosensors based on low Q-factor micro-ring resonators on a silicon nitride platform and signal processing of</p>	<p>15:00-15:15 EU Project Traceable three-dimensional nanometrology (3DNano) V. Constantoudis N.C.S.R. Demokritos, Greece</p>	

wavelength scanning data C. Kouloumentas, National Technical University of Athens, Greece	15:15-15:30 Epitaxial Fe/Pt and Fe/MgO/Pt ultra-thin films: crystallographic approach of studying dynamic magnetic properties D. Karfaridis, AUTH Greece	
15:30-16:00 Invited Photonics Sensor Applications: from vertical to horizontal light paths J. Kraft, AMS AG, Austria	15:30-15:45 Electrochemical deposition of diluted magnetic semiconductor CuCoTe thin film S. K. Akay, Uludag University, Turkey 15:45-16:00 Electrochemically Synthesis and Characterization of Polyaniline for Electrochromic Applications: Effect of LiClO4 Inorganic Salt Y.E. Firat, Uludag University, Turkey	15:30-16:00 Invited Graphene-Silicon Schottky diodes for fast and broadband photodetection T. Echtermeyer, The University of Manchester, UK
16:00-16:30 Invited CMOS Plasmonics co-integrated with photonics for biosensing and on-chip communication applications G. Dabos, Aristotle University of Thessaloniki, Greece	16:00-16:15 A New multifunctional textile nanocoated by PVD reactive: Evaluation of the antimicrobial, anti-uv, superhydrophobic and photocatalytic properties J.H.O.Nascimento, Federal University of Rio Grande do Norte, Brazil 16:15-16:30 Photoluminescence Enhancement of ZnO via Coupling with Surface Plasmons on Al Thin Films S. Dellis AUTH Greece	16:00 – 16:30 Invited Properties of Graphene/Polymer Nanostructured Systems through Atomistic Simulations V. Harmandaris, IACM-FORTH, University of Crete, Greece 16:30-16:45 Ag/Cu Bimetallic Nanoparticle - Graphene Composites with Enhanced Antibacterial Performance G. N. Karanikolos, The Petroleum Institute, Abu Dhabi
16:30-17:00 Invited Review on Integrated Microwave Photonic Filters R. Alemany, University of Valencia, Spain	16:30-16:45 In-silico approach to the development of molecularly imprinted polymers for sensing 2,4,6-trinitrotoluene (TNT) and its analogues N. Leibl, Sorbonne Universités de Technologie de Compiègne, France 16:45-17:00 EU Project Assembly of miniaturized PCBs by using low cost hyper-Fine Solder powders, (FineSol) H020 T. Parissis, CETRI, Cyprus	16:45-17:00 Gladiator Project: An overview E. M. Pechlivani Organic Electronic Technologies (OET), Greece 17:00-17:15 Functionalization of Graphene on Electrodeposited Cu: surface-enhanced Raman scattering I. Fekas, AUTH Greece
17:00-17:15		17:15-17:30 Insights on the growth mechanisms of CVD graphene by In-Situ Real-Time Spectroscopic Ellipsometry A. Zachariadis, Nanotechnology Lab LTFN (LTFN), AUTH, Greece
		17:30-17:45 EU Project Capacitive sensors for touchscreen devices based on graphene metal hybrids A. Dalton, University of Sussex, UK

17:30–18:30	Coffee Break-Exhibition-Networking Room:Grand Pietra Hall
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Plenary Session (ISFOE17 Symposium and NN17 Conference) Room: Grand Pietra Hall	
18:30 – 19:00	Introduction & Welcome: Prof. S. Logothetidis, NANOTECHNOLOGY Chairman
19:00 – 19:30 PLENARY	The Use of Dopants to Modulate the Properties of Organic Semiconductors, 2D Materials and Electrodes S. Marder, Georgia Tech IEN, USA

19:30 – 20:00 PLENARY	Metal halide perovskites: a new class of semiconductors for photovoltaic and optoelectronic devices H. J. Snaith, University of Oxford, UK
20:00 – 20:30 PLENARY	The Antikythera Mechanism: Decoding an astonishing 2nd century BCE astronomical computer J. Seiradakis, AUTH Greece
END OF FIRST DAY	
21:00	DRINKS & OFFICIAL DINNER (ISFOE17 & NN17) NANOTECHNOLOGY 2017 <i>PORTO PALACE CONFERENCE CENTRE & HOTEL - ROOF GARDEN</i>

Wednesday 5 July Porto Palace Conference Centre & Hotel

09:00-09:30 Keynote Talk

Chair: R. Martins

Room: Crystal Hall

2018-2020 Draft Program in H2020 (NMBP, ICT, PILOTS, FoF)

G. Katalagarianakis, European Commission, Belgium

Parallel Session

W1 NanoElectronics I

Chair: R. Martins, C. Fostiropoulos

Room: Timber Hall II

Parallel Session

W2 NanoCharacterization I

Chair: J. Fraxedas

Room: Dock Six I

Parallel Session

W3: Basic Research in Nanomedicine towards Clinical Practice

Chair: Y. Missirlis

Room: Dock Six II

Parallel Session

Joined Session of ISFOE17 and W5: GRAPHENE IV

Chair: A. Lombardo

Room: Crystal Hall

09:30-10:00 Invited

Retention Study of Novel Class of Organic Ferroelectric Memories

D. E. Ioannou, George Mason University, USA

09:30-10:00 Invited

Characterization of Nano-Materials at High Spatial Resolution in the Electron Microscope, What's Next?

R. Gauvin, McGill University, Canada

09:30-10:00 Invited

Single-Exhale Diagnostic Breathalyzer

P. I. Gouma, University of Texas, USA

09:30-10:00 Invited

2D materials as building blocks in solution processable hybrid solar cells

K. Petridis, Electrical Engineering Dept., TEI of Crete, Greece

10:00-10:30 Invited

Nanocomposite materials for low cost resistive switching memories

N. T. Kemp, University of Hull, UK

10:00-10:30 Invited

Advanced TEM Studies on Different Atomically Thin 1D and 2D Nanomaterials

R. Arenal, U. Zaragoza, Spain

10:00-10:15

Synthesis of gold nanoprisms and nanorods as photothermal agents: comparison of their heating ability in vitro and in vivo

M. Moros. ISASI-CNR, Italy.

10:15-10:30 **Young Researcher Applicant**

Design, synthesis and characterizations of multicomponent nanosystems as theranostic agents in nanomedicine applications

I. Monaco. University of Bologna, Italy

10:00-10:30

Invited

Soft Processing for Nano Carbons: Direct Fabrication of Functionalized Graphenes and Their Hybrids Inks via Submerged Liquid Plasma [SLP] and Electrochemical Exfoliation [ECE] under Ambient Conditions

Masahiro Yoshimura, National Cheng Kung University, Tainan, Taiwan

10:30-10:45

Stretchable nanogenerators for self-powered wearable electronics

A.S. Dahiya, U. François Rabelais de Tours, France

10:30-11:00

Invited

Chemical Intuited Large-scale Screening of MOFs by Machine Learning Techniques

G. Froudakis, University of Crete, Greece

10:30-10:45

Inorganic coating of luminescent porous silicon by ALD technique to enhance optical stability for biomedical applications

E. Chistè, University of Verona, Italy

10:30-10:45

A new method of the synthesis of high quality graphene on silicon carbide

P. Ciochoń, Jagiellonian University, Poland

10:45-11:00

InAsSb/Al, a candidate for topological superconductivity?

A. Gejl, University of Copenhagen, Denmark

10:45-11:00 **Young Researcher Applicant**

Biosynthesis of silver nanoparticles by the water velvet (Azolla pinnata R. Br.)

R. Janthima, Suranaree University of Technology, Thailand

10:45-11:00

First Investigation of N-Doped Amorphous Silicon-Graphene Interfaces for Flexible High Frequency Heterojunction Transistors

C. Strobel Technische Universität Dresden, Germany

11:00 – 11:30

Coffee Break-Exhibition-Networking

Room: Grand Pietra Hall

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BUSINESS FORUM 2

SESSION 11:30-13:30

Keynote Talk Session II (All Workshops of NN17)

Parallel Session

Chair: K. Teshima Room: <i>Dock Six I</i>			Joined Session of ISFOE17 and W5: GRAPHENE V Chair: G. Kioseoglou Room: <i>Crystal Hall</i>
11:30 – 12:00 Keynote Talk Introducing new interface energies for modeling nanomaterials K. E. Aifantis, Engineering Mechanics, University of Arizona, USA			
Parallel Session W1 – NanoElectronics II Chair: N. T. Kemp Room: <i>Timber Hall II</i>	Parallel Session W2 – NanoCharacterization II Chair: R. Gauvin Room: <i>Dock Six I</i>	Parallel Session W3 – Nanoparticles for Clinical Applications Chair: V. Karagkiozaki, H.Schmid Room: <i>Dock Six II</i>	11:30-12:00 Invited High-mobility Graphene for High frequency and THz electronics A. Lombardo, Cambridge Graphene Center,UK
12:00-12:30 Invited TBA R. Martins, Universidade Nova de Lisboa, Portugal	12:00 – 12:30 Invited Jahn-Teller effect and electron-phonon coupling in diperiodic systems I. Milosevic, University of Belgrade, Serbia	12:00-12:30 Invited Nanoparticle Systems in Medicine - Review of 15 Years of Practical Experience and Prospect of New Development H. Schmid, FhG-ICT, Germany	12:00-12:30 Invited Graphene Biosensors for Ultrasensitive and Reproducible Detection of Disease Biomarkers G. Pan, Plymouth University, UK
12:30-12:45 2-Dimensional Electron Conduction in High Mobility Solution-Processed Metal Oxide Heterojunction Transistors N.A. Hastas, Imperial College London, UK	12:30-13:00 Invited Nanomathematics: Defining and developing mathematical methods and tools for nanostructure characterization V. Constantoudis, N.C.S.R. Demokritos, Greece	12:30-13:00 Invited Nanoparticles , environmental pollutants and pregnancy outcomes E.-N. Emmanouil-Nikoloussi, European University of Cyprus, Cyprus	12:30-12:45 Membranes Combining Polymers with Graphene-based Materials GP Simon, Monash University, Australia
12:45-13:00 Large-area photonic-annealing for the rapid fabrication of high-performance solution-processed metal oxide transistors K. Tetzner, Imperial College London, UK			12:45-13:00 Coal Derived Graphene Quantum Dots A Look into the Future M. Gross, Dotz Nano Ltd., Israel
13:00-13:15 Carbon Nanotube/Chitosan Coating Flexible Textile Fibres: A new and efficient Supercapacitor J.H.O.Nascimento, Federal University of Rio Grande do Norte, Brazil	13:00 –13:30 Invited Determination of nanomechanical properties of surfaces using higher harmonics of AFM cantilevers J. Fraxedas, Catalan Institute of Nanoscience and Nanotechnology, Spain	13:00-13:15 Biopolymers to improve the efficacy of MRI contrast agents A. M. Ponsiglione University of Naples Federico II, Italy	13:00-13:15 Effect of plasma functionalized GNP's on the properties of ink A. Claypole, Welsh Centre for Printing and Coating, Swansea University, UK
13:15-13:30 Synthesis, Structural Studies and Optical Nonlinear Response of Some Aromatic Thioamides M. Marinescu, University of Bucharest, Romania	13:30-13:45 (Company Presentation) Nanometer resolution material contrast mapping By apertureless scanning nearfield microscopy D. Kazantsev, Institute for Theoretical and Experimental Physics, Moscow, Russia	13:15-13:30 3D Printing Imaging Phantoms for Gamma Scintigraphy J. Babiuch-Hall , University of Warsaw, Poland	13:15-13:30 EU Project Enhancing the application of graphene through large-scale production. L.González Bermúdez GrapheneTech S.L, Spain

13:30 – 14:45	Lunch Buffet Break Room: <i>Grand Pietra Hall</i>
	Poster Session (DAY 2)- Exhibition – Networking

SESSION 15:00-17:30		
15:00 – 15:30 Keynote Talk Chair: V. Constantoudis Room: <i>Dock Six I</i> Raman and Infra-red rigid-layer modes in multilayered structures M. Damjanovic, NanoLab Group, Department of Physics, University of Belgrade, Serbia	Parallel Session W3 –Nanomedicine and Pharma: Novel Drug Delivery Nanosystems Chair: I.Vizirianakis, N.H. Voelcker Room: <i>Dock Six II</i>	Parallel Session Joined Session of ISFOE17 & W4 - Bioelectronics of NN17 Session: Bioelectronics I Chair: P. Baptista, Room: <i>Crystal Hall</i>

Parallel Session W1 – Plasmonics <i>Chair: P. Patsalas, C. Fostiropoulos</i> <i>Room: Timber Hall II</i>	Parallel Session W2 – NanoCharacterization III <i>Chair: V. Constantoudis</i> <i>Room: Dock Six I</i>	15:00-15:30 Invited Enabling personalized cancer medicine through the advancement of nanotherapeutics-focused PBPK models I. Vizirianakis, AUTH, Greece	15:00-15:30 Invited Biorecognition and transduction in ultrasensitive label-free organic biosensors F. Biscarini, University of Modena and Reggio Emilia, Italy
15:30-16:00 Invited Towards in-silico Plasmonics: Electron-plasmon coupling from first-principles F. Caruso, Humboldt Universität Berlin, Germany	15:30 – 16:00 Invited Far-infrared spectroscopic study of CeO2 and TiO2 Z. Popovic, University of Belgrade, Serbia	15:30-16:00 Invited Targeted Drug Delivery to Brain Tumours Using Porous Silicon Nanoparticles N.H. Voelcker Melbourne Centre for Nanofabrication, Australia	15:30 – 16:00 Invited Photoconverters with Organic Semiconductors and Photosynthetic Enzymes G. Farinola, Chemistry Department, University of Bari, Italy
16:00-16:30 Invited Polariton lasing in organic all-dielectric microcavities and ultrafast lasing action in plasmonic lattices. K. S. Daskalakis, Aalto University, Finland	16:00-16:30 Invited Greener energy-efficient cavitation technology for the generation of nanomaterials and nanoemulsions S. Manickam, University of Nottingham	16:00-16:15 Quercetin-loaded Nanoparticulate Coating for Bare-metal Stent via Electrohydrodynamic Atomization Process M.Giannouli, LTFN, AUTH Greece 16:15-16:30 Invited Recent Advances in Carrier Mediated N2B Delivery of Pharmaceuticals C. Kiparissides, AUTH, Greece	16:00 – 16:30 Invited Interfacing Organic Electrochemical Devices with Biological Systems C. Pitsalidis, Ecole Mines de Saint-Etienne, France
16:30-16:45 Unconventional plasmonic materials: the case of PEDOT:PSS N. Kalfagiannis, Nottingham Trent University, UK	16:30-16:45 Computational Methods in Hazard Assessment of Engineered Nanoparticles T. Puzyn, University of Gdansk, Poland	16:30-16:45 Irradiation of polyvinyl alcohol and polyvinyl pyrrolidone blended hydrogels containing pumice particles: swelling, drug uptake and release systems B. Taşdelen Namik Kemal University, Turkey	16:30-16:45 The Influence of Crosslinking on the Optical Properties of Poly(p-phenylene ethynylene) Conjugated Polymer Nanoparticles for Bioimaging Y. Braeken, Institute for Materials Research, Belgium
16:45-17:00 Nickel-silver core-shell nanoparticles – synthesis, characterization and application in Surface-Enhanced Raman Scattering (SERS) spectroscopy M. Witkowski, University of Warsaw, Poland	16:45-17:00 Nanotechnology applications in dairy processing A. Labropoulos, TEI of Athens, Greece	16:45-17:00 EU Project ENATRANS Enabling Nanomedicine Translation N. Gouze, VDI/VDE Innovation + Technik GmbH, Germany	16:45-17:00 Bimodal functioning of a mesoporous, light sensitive polymer/electrolyte interface G. Tullii Istituto Italiano di Tecnologia
17:00-17:15 Giant magnetic moment of nanosized photoinduced polarons in EuTe epitaxial films V. V. Pavlov, Ioffe Institute, 194021 St. Petersburg, Russia	17:00-17:15 Infrared Spectroscopic Ellipsometry of Micrometer-Sized SiO2 Gratings on Silicon Wafers C. Walder, Leibniz-Institut für Analytische Wissenschaften, Germany	17:00-17:15 Nanofluidics for mass spectrometry with applications in glycomics for biomedical research A. D. Zamfir, National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania;	17:00-17:15 Laser evaporation of polymers for the fabrication of drug-delivery systems M. Filipescu, National Institute for Lasers, Plasma, and Radiation Physics, Romania
	17:15-17:30 How Computational Methods Can Improve the Accuracy of Nanoroughness Measurements G. Papavieros, N.C.S.R. Demokritos, Greece	17:15-17:30 Injectable Hyaluronic Acid based Hydrogels for Cartilage Repair C. Kiparissides AUTH, Greece	17:15-17:30 Tunable nanostructured hydrogels as biosensor for direct viral biomarker detection T. M. Caputo University of Naples Federico II, Italy
	17:30-17:45 Nanometer resolution material contrast mapping By apertureless scanning nearfield microscopy I. Arkov, Spectrum Instruments, Limerick, Ireland		

Thursday 6 July Porto Palace Conference Centre & Hotel

Keynote Talk Session V (All Workshops of NN17)

Room: Dock Six I
Chair: K. Porfyrakis

Parallel Session

Joined Session of ISFOE17 & W4 – Bioelectronics of NN17

Session: Bioelectronics I
Chair: Dr. Ch. Pitsalidis, Dr. S. Inal
Room: Timber Hall II

09:00 – 09:30 Keynote Talk

The Casimir effect and its role in nanotechnology applications

F. Pinto, Dept. of Aerospace Engineering, Izmir University of Economics, Turkey

09:00-09:30 Invited

Reversible proton exchange reactions in functionalised electrodes and a prototype strategy to control the pH in Miniaturised environments
C.P. Garcia, Luxembourg Institute of Science and Technology (LIST), Luxembourg

Parallel Session

W2 – NanoEngineering

Chair: K. Porfyrakis
Room: Dock Six I

Parallel Session

W3 – Nanomedicine: Clinical Nanomedicine for CANCER

Chair: K. Kousoulas
Room: Dock Six II

09:30-10:00 Invited

The Role of Ultrasonic Cavitation in the Microstructure Formation of Aluminum Based Nanocomposites during the Solidification Process

L. Nastac, University of Alabama, USA

09:30-10:00 Invited

A Syngenic Immunocompetent Mouse Model System for Oncolytic Virotherapy of Metastatic Melanoma Using the HSV-1 VC2 Live-attenuated Vaccine Strain

K. G. Kousoulas, Southern University A&M College, USA

09:30-10:00 Invited

RNA detection via BioCode spectral codification
P. Baptista, Universidade Nova de Lisboa, Portugal

10:00-10:15

Hybrid coatings with Cu-based nanoparticles on polymer and steel substrates

T. Karamanidou, PLiN Nanotechnology SA, Greece

10:00-10:30 Invited

Selective targeting of bone cancer acidic microenvironment

N. Baldini, University of Bologna, Italy

10:00-10:15

Gold nanorods-based plasmonic label-free biosensor for early detection of LAMP-amplified eDNA of invasive species

J. Rafaela Guerreiro, International Iberian Nanotechnology Laboratory, Portugal

10:15-10:30

Inkjet printing deposition process of metalorganic precursors to reach oxide superconducting thick films

F. Pino, Institut de Ciència de Materials de Barcelona (CSIC), Spain

10:15-10:30

Potential application of engineered hydrogels, realized by microfluidics, for biomarkers detection.

A. Mazarotta University of Naples Federico II, Naples, Italy.

10:30-10:45

Lift-off process for II-VI semiconductor microcavity and for optical transmission studies of exciton-polaritons

B. Seredyński, University of Warsaw, Poland

10:30-10:45

Non-functionalized fluoride-based nanoparticles increase growth of carcinogenic cells

V. Gavriil, National Hellenic Research Foundation, Greece.

10:30-10:45

Active Surfaces”: Biomolecule - Polymer Membranes For Efficient Sensing Of Phenols

V. Mikhalevich University of Basel, Switzerland

10:45-11:00

The effect of nanomaterials on thermal resistance of cement-based composites exposed to elevated temperature

E. Mijowska, West Pomeranian University of Technology Szczecin, Poland

10:45-11:00

Multifunctional Protein Coated Nanoparticles for Targeting Intracellular miRNA in Breast Cancer Cells

Ö. Ünal, Koç University, Turkey

10:45-11:00

Direct Detection of Genomic DNA by Nanoparticle-Enhanced Surface Plasmon Resonance Imaging: Properties and Role of Functionalized Gold Nanoparticles

G. Spoto Istituto Nazionale Biostrutture e Biosistemi, I.N.B.B., Italy

11:00 – 11:30

Coffee Break-Exhibition-Networking

POSTER SESSION II:

All participants of Workshops 1,2 (31-61),-3 should put their Posters to the NN17 Poster Area on Thursday 6 (Lunch Break) and will remain until Friday 6 July.

Room: Grand Pietra Hall

BUSINESS FORUM 3

SESSION 11:30-13:30			
Keynote Talk Session VI (All Workshops of NN17) <i>Room: Dock Six I</i> <i>Chair: L. Nastac</i> 11:30-12:00 Keynote Talk Adding a “Raleigh-size” nano-particle to a laser-trapped microsphere yields three trapping forces plus two lateral traction forces when targeted against a surface Evan Evans, The University of British Columbia & Boston University, USA		Parallel Session Joined Session of ISFOE17 & W4 - Bioelectronics of NN17 Session: Bioelectronics III <i>Chair: C.P. Garcia</i> <i>Room: Timber Hall II</i>	
Parallel Session W2 – NanoEngineering <i>Chair: L. Nastac</i> <i>Room: Dock Six I</i>		Parallel Session W3 – Nanomedicine Session - Clinical Nanomedicine & Nanotocity <i>Chair: V. Karagkiozaki, G. Katalagarianakis</i> <i>Room: Dock Six II</i>	
11:30-12:00 Invited Tailoring Conducting Polymer Scaffolds for Bioelectronics S. Inal, KAUST, Saudi Arabia		11:30-12:00 Prerequisites for Novel Technologies Commercialization P. Giannoules, g t Consulting , Germany	
12:00-12:30 Invited SubNanoclusters-on-Nanopartilces produced by Flame Spray Pyrolysis: Catalysis and Thermodynamics Y. Deligiannakis, University of Ioannina, Greece		12:00-12:30 Invited Magnetic Colloids for Micro-Rheology and Biophysics Applications J.-F. Berret, Université Denis Diderot Paris-VII, France	
12:00-12:30 Point-of-Care testing of reduced biothiols relying on paper-based photoreduction of silver halide nanocrystals D. L. Giokas, University of Ioannina, Greece		12:00-12:30 Developing an Entrepreneurial Environment in Academic Settings K. Gus Kousoulas, Assistant Vice Chancellor for Research and Economic Development, Louisiana State University, USA	
12:15-12:30 The Reliable Measurement of Air Pollutants with Metal Oxide Nanostructured Sensors - Regardless of their Cost A.N. Skouloudis, Joint Research Center, European Commission, Italy		12:30-12:45 Morphology Effect on Charge Transport in Doped Bovine Serum Albumin Self-Assembled Monolayers E. Beilis Tel Aviv University Center for Nanoscience and Nanotechnology, Israel.	
12:30-12:45 EU-Project Production of Advanced Nano-Diamond Additives (PANDA) From Lab to Fab O. Levinson Ray Techniques Ltd, Israel		12:30-12:45 An Evaluatory Study on in vitro Nanotoxicology of Fluorescent Carbon Dots S. ŞİMŞEK, Yıldız Technical University, Turkey	
12:45-13:00 Synthesis and characterization of carbon nanotubes obtained from lignin and your application in smart textiles J.H.O.Nascimento Federal University of Rio Grande do Norte, Brazil		12:45-13:00 EU Project SmartNanoTox: Smart Tools for Gauging Nano Hazards V. Lobaskin, University College Dublin, Ireland	
12:45-13:00 Wireless innovative sensors network application for health monitoring D.Ulieru, SITEX,Romania		12:30-13:00 The First Commercialization of AMOLED Displays Lessons Learned in the Journey from Invention to Industry G. Rajeswaran, Grantwood Technologies Inc, USA	
13:00-13:15 Nanotecnology applications in food processing and their impact in the global market A. Labropoulos, TEI of Athens, Athens, Greece		13:00-13:15 Rapid estrogen detection assay based on interaction between estrogen receptor and gold nanoparticles S. Siri, Suranaree University of Technology, Thailand	
13:00-13:15 Potential Modulation on Total Internal Reflection Imaging Ellipsometry Biosensor G. Jin Chinese Academy of Sciences, China		13:00-13:15 Unique Manufacturing and Commercialization of Organic Photovoltaics by OET E.M Pechlivani, Organic Electronic Technologies P.C, Greece	
13:15-13:30 Advanced nanoscale optoelectronic devices fabricated via adhesion lithography D. G. Georgiadou Imperial College London, UK		13:15-13:30 Biomechanical Studies of Hyaluronic Acid as a Route of Developing a New Diagnostic Method for Osteoarthritis N. Matisioudis, AUTH, Greece	
13:15-13:30 Is it possible for a Greek SME to provide products and services in Preclinical Nanomedicine? M. Georgiou, BioEmissionTechnology Solutions, Greece			

13:50 – 15:00	Lunch Buffet Break <i>Room: Grand Pietra Hall</i>
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Poster Session II Exhibition – Networking

All participants of Workshops 1,2 (31-61),-3 should put their Posters to the NN17 Poster Area on Thursday 6 (Lunch Break)and will remain until Friday 6 July.

Room: Grand Pietra Hall

SESSION 15:00-17:30

Keynote Talk Session VI (All Workshops of NN17)

Room: Dock Six I

Chair: Y. Deligiannakis

Workshop: Renewable Energy & Storage I

Room: Timber Hall II

Chair: I. Monacholias, B. Fillon

15:00-15:30 Keynote Talk

Strategies to improve the functional properties of Cu2O thin films

J. Francois Pierson, University of Lorraine, France

15:00-15:30

Comprehensive Renewable Energy Generation Concepts

P. Giannoulas, g|t Consulting , Germany

Parallel Session

W2 – NanoEngineering III

Chair: Y. Deligiannakis

Room: Dock Six I

Parallel Session

W3 – Clinical Nanomedicine against major chronic Diseases & Nanodentistry

Chair: T. Mitsiadis, G. Orsini

Room: Dock Six II

15:30-16:00 Invited

The Electrocarding of nanoyarns

G. Stylios, Heriot-Watt University, UK

15:30-16:00 Invited

Advances in dental regenerative approaches through mathematical modelling, bioengineering, stem cells and nanotechnology

T. Mitsiadis, University of Zurich, Switzerland

15:30-16:00

3rd Generation Photovoltaics, OPVs Manufacturing

Mr. Vasileios Matskos, Organic Electronic Technologies (OET), Greece

16:00-16:15 EU Project

PROtective composite Coatings via Electrodeposition & Thermal Spraying (PROCETS)

S. Sofou .Center for Technology Research and Innovation, Cyprus

16:00-16:30 Invited

Advances in Dental Materials through Nanotechnology and Tissue Engineering

G. Orsini, Università Politecnica delle Marche, Italy

16:00-16:20

Nanotechnologies and advanced materials for low-carbon energy technologies: Research and innovation at CEA

S. Perraud, CEA, FRANCE

16:15-16:30 EU Project

NanoMONITOR LIFE Project: Development of a real-time information and monitoring system to support the risk assessment of nanomaterials under REACH

A. Progiou AXON ENVIRO-GROUP Ltd., Greece

16:30-17:00 Invited

Magnetic nanoparticles for tissue specific ocular drug delivery

M. Giannaccini, Università di Pisa, Italy

16:20-16:40

Materials for energy storage at Leitat: energy challenges-driven innovations and cross-sectorial impact

D. Gutierrez, LEITAT, Spain

16:45-17:00

NFFA - H2020 project - Enhancing European competitiveness in nanoscience research and innovation

A. Pagkozidis, FORTH.GR

17:00-17:15

Biomimetic Drug Eluting Nanoplatforms as Suitable Substrate for Cardiac Tissue Engineering

V. Bakola, LTFN, AUTH Greece

17:00-17:15

Importance of Soft Processing(=Low-Energy Production) of Advanced Inorganic Nano-Materials for Sustainable Society

Masahiro YOSHIMURA, National Cheng Kung University, Tainan,Taiwan

17:15-17:30

SI-Traceable Tau Protein Quantification by Surface Enhanced Raman Spectrometry. A First Step Towards Reliable Diagnosis of Alzheimer's Disease

C. Frank, Physikalisch-Technische Bundesanstalt (PTB), Germany

16:40-17:00

Nanotechnologies, materials the keys for better renewable energy systems and products

B. Fillon, Technical Institute Innovation Plasturgie Composites (IPC),FRANCE

17:00-17:30

Round Table, Moderator B. Fillon

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11:30-12:00 Invited

Strawberry-Derived Nanovesicles With Nutraceutical Potential To Improve Bone Health

S. Avnet Istituto Ortopedico, Italy

END OF THIRD DAY

Friday 7 July Porto Palace Conference Centre & Hotel

Parallel Session W1 & SW-: NanoEnergy & Storage II <i>Chair: S. Kassavetis</i> <i>Room: Timber Hall I</i>	Parallel Session W2 – Polymers <i>Chair: A. Magrez</i> <i>Room: Timber Hall II</i>	SWorkshop to honor Prof. Yannis Missirlis Session I: Mechanics and simulations in biological systems <i>Chair: A. Sendemir-Urkmez, K. Komvopoulos</i> <i>Room: Crystal Hall</i>	SW NANO-GR & Round Table <i>Chair: A. Laskarakis, D. Niarchos</i> <i>Room: Doc Six I</i>
09:00-09:30 Invited A Challenge for Super-Ion Conduction Path in All-Solid-State LIBs: Flux Crystal Growth Concept as New Approaches to Material Fabrication & Design K. Teshima, Shinshu University, Japan	09:00-09:30 Invited Designing Nanostructured Polymer Particles for High Modulus and High Conductivity Polymer Electrolytes E. Glynos FORTH-Hellas, Greece	09:00-09:10 Introduction	09:00-09:10 Introduction
09:30-09:45 Young Researcher Applicant Influence of solvent and thermal processing on the performance of MoOx interlayers in organic optoelectronic devices M. Morbidoni, Imperial College London, UK	09:30-10:00 Invited Epoxy - C Nanostructures Composites: From Synthesis to Electrical Conduction Mechanism A. Magrez, EPFL, Switzerland	09:10-09:40 Photonic Nano-Sensor Reports Dynamics of Interactions between Single Molecular Ligand or Pathogen and a Live Cell with nm Precision in 3D at >100 Hz E. Evans, The University of British Columbia & Boston University, USA	CUPIDO - Cardio Ultraefficient nanoParticles for Inhalation of Drug prOducts Dr. Maria Georgiou, BioEmission Technology (BET) Solutions, Greece ICT-STREAMS - Silicon Photonics Transceiver and Routing technologies for High-End Multi-Socket Server Blades with Tb/s Throughput interconnect & interfaces Prof. Nikos Pleros, AUTH, Greece VIVOIMAG - Multimodal imaging of the vivo fate of bone transplants Mr. George Loudos, NCSR Demokritos, Greece
09:45-10:00 Synthesis, Characterization and Device Implementation of Multi-Color Fluorescent Carbon Dots for Supercapacitor Applications Rukan Genc, Mersin University, Turkey	10:00-10:15 Metal Organic Framework Mixed Matrix Membranes for CO2 Separation G. N. Karanikolos, The Petroleum Institute, Abu Dhabi	09:40-10:10 Intersection of Nanotechnology and Cell Mechanics K. Komvopoulos, University of California, Berkeley	SMARTONICS - Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics A. Laskarakis, AUTH, Greece
10:00-10:15 Perovskite optoelectronics: can we avoid working on a DMF toxic environment? T. Stergiopoulos, Aristotle University of Thessaloniki, Greece	10:15-10:30 EU Project MWCNT/Polyaniline nanocomposites used for pH Nanosensors (COMMON SENSE) A. Grozdanov, SS Cyril and Methodius University, FYR	10:10-10:40 Mechanical loading and cell differentiation M. Alini, AO Foundation, Switzerland	“Novel lithium-ion cells for space applications” F. Farmakis, University of Thrace, Dr Katerina Kouravelou Adamant Composites Ltd. PLATFORM - Open access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and prepreg
10:15-10:30 Young Researcher Applicant Cycling Characteristics of rGO-SnS2 hybrid nanoparticles in Li-ion Batteries M.H. Modarres, University of Cambridge, UK	10:30-10:45 Weathering Degradation of Polylactide / Montmorillonite Nanocomposites C. Kaynak, Middle East Technical University, Turkey	10:40-11:10 Dielectric properties and non thermal effects of microwaves on lysozyme studied with molecular dynamics simulations G. Papadopoulos, University of Thessaly, Greece	Designing a Sustainable European Centre for Risk Management and Safe Innovation in Nanomaterials and Nanotechnologies (EC4SafeNano) E. Marcoulaki National Centre for Scientific Research «Demokritos», Greece
10:30-10:45 Supported nanoscaled metals for energy storage and conversion G. Blanita, National Institute for R&D of Isotopic and Molecular Technologies, Romania	10:45-11:00 Bioinspired wettability surfaces with water collecting or repellent abilities Y. Zheng, Beihang University, China		
10:45-11:00 Printed OPVs Technology Ch. Kapnopoulos, E. Mekeridis, LTFN, OET, Greece	11:00-11:15 Young Researcher Applicant Urea-Hydroxyapatite Nanohybrids M. de Silva, University of Sri Jayewardenepura, Sri Lanka		
			10:00-11:00 Round Table

"Synergies between H2020 and Greek regional funds in the framework of Smart Specialization"
N. Komninos, A. Chatziparadis, G. Katalagarianakis,

11:00-11:30

Coffee Break-Exhibition-Networking

All participants of Workshops 1,2 (31-61),-3 should put their Posters to the NN17 Poster Area on Thursday 6 (Lunch Break)and will remain until Friday 6 July.

Room: Grand Pietra Hall

SESSION 11:30-13:30

<p>Parallel Session W2 – Polymers Chair: E. Glynos Room: Timber Hall II</p>	<p>Parallel Session W3 – Nanomedicine: Nanoparticles in Nanomedicine I Chair: F. Sayegh, T. Mitsiadis Room: Timber Hall I</p>	<p>SWorkshop to honor Prof. Yannis Missirlis Session II: Tissue and Organ Engineering Chair: M. Chatzinikolaidou, S. Korossis Room: Crystal Hall</p>	<p>Keynote Talk 11:30-12:00 Financial Instruments in Greece Facilitating access to finance to support technology transfer and entrepreneurship acceleration G. Giakoumakis, European Investment Fund Chair: P. Giannoules, L. Nikolopoulou Room: Dock Six II</p>	
		<p>11:30-12:00 Development of a Tissue-Engineered Tumor Model A. Mikos, Rice University, USA</p>	<p>SW EU - USA "Bridging Research Cooperation in NanoManufacturing " Chair: G. Kousoulas, A. Laskarakis Room: Dock Six I</p>	<p>SWorkshop on New Business Development & Commercialization II Chair: P. Giannoules, L. Nikolopoulou Room: Dock Six II</p>
<p>12:00-12:15 Optoelectronic and Photolithography of Polymer Film Dispersed with Carbon Black Nanoparticles W. T. Cheng, National Chung Hsing University, Taiwan</p>	<p>12:00-12:15 Young Researcher Applicant Light emitting diode irradiation induced shape conversion of DNA-capped silver nanoparticles N. Sritong, Suranaree University of Technology, Thailand</p>	<p>12:00-12:20 Engineering Responsive and Biomimetic Hydrogels for Biomedical Therapeutic and Diagnostic Applications (BIOGEL) C. Kiparissides, CPERI-CERTH, Greece</p>	<p>12:00-12:15 Nanotechnology and Advanced Materials for Regional Growth Dr. Georgios Katalagarianakis, European Commission, Belgium</p>	<p>12:00-12:30 Featuring Smart Systems Integration: Value for Users and Innovation Opportunities for Industry N. Gouze, VDI/VDE Innovation + Technik GmbH,</p>
<p>12:15-12:30 Photopolymer formation in the fullerene complex {Pt(dbdtc)₂•C60 and kinetics of the photo-oligomers decomposition studied by Raman spectroscopy G. Velkos, AUTH Greece</p>	<p>12:15-12:30 Thinking Small to Define A Big Future C. D. Montemagno, University of Alberta, Canada</p>		<p>12:15-12:30 TBA Prof. Konstantin Gus Kousoulas, Assistant Vice Chancellor for Research and Economic Development, Louisiana State University, USA</p>	
<p>12:30-12:45 Preparation and characterization of conducting hydrogel composites made of polyaniline, polyacrylamide and kaolin nanoparticles B. Taşdelen Namık Kemal University, Turkey</p>	<p>12:30-12:45 Quantum dot based multiplex lateral flow immunoassay for sepsis marker L. J. Jacob, Hochschule Furtwangen University (HFU), Germany</p>	<p>12:20-12:40 Endothelialisation of Gas Exchange Membranes Coated with TiO₂ Nanoparticles for the Development of a Biohybrid Lung S. Korossis, Hannover Medical School, Germany</p>	<p>12:30-12:45 Bridging Research Cooperation in Nanomanufacturing: Fostering EU-USA Research Cooperation in Nanomanufacturing Prof. Kyriakos Komvopoulos, University of California, Berkeley, USA</p>	<p>12:30-13:00 Raising funds: Is it art or science? Lina Nikolopoulou, Mindwork Business Solutions</p>
<p>12:45-13:00 Production of CuxSe/Polypyrrole Composite Thin Film by Electrochemical Deposition Y.E. Firat, Uludag University, Turkey</p>	<p>12:45-13:00 Rapid Diagnostic Test for Celiac Disease based on Deamidated Magnetic Peptide as a novel biomarker M.I. Pividori, Universitat Autònoma de Barcelona, Spain</p>	<p>12:40-13:00 Biological and mechanical aspects in bone tissue engineering M. Chatzinikolaidou, University of Crete, Greece</p>	<p>12:45-13:00 Risk assessment, Legal governance and Regulatory Connections: Achievements of the USA-EU Community of Researchers 2013 to 2017 I. Feitshans, Institute for Work and Health University of Lausanne, Switzerland</p>	

13:00-13:15	13:00-13:15 Visible light-responsive materials containing azobenzene for the control of cell fate S. De Martino, Istituto Italiano di Tecnologia, Italy		13:00-13:15 How USA institutions can collaborate with EU partners Prof. Katerina E. Aifantis, University of Arizona, USA	13:00-13:15 Innovation Management Methodology in Horizon2020 projects S. Sofou, CETRI, Cyprus
13:15-13:30	13:15-13:30	13:00-13:20 Guiding neural cell behaviour in vitro through chemical and mechanical signals A. Sendemir-Urkmez, Ege University, Turkey	13:15-13:30 "Nanomagnetic materials for energy needs" D. Niarchos,	13:15-13:30 Understanding the components of a comprehensive entrepreneurial support system: How to know the right kind of support? Paraskevi Giourka, Democritus University of Thrace, Greece
13:30 – 15:00	Lunch Buffet Break Room: Grand Pietra Hall			
	Poster Session II) - Exhibition – Networking All participants of Workshops 1,2 (31-61),-3 should put their Posters to the NN17 Poster Area on Thursday 6 (Lunch Break)and will remain until Friday 6 July. Room: Grand Pietra Hall			

SESSION 15:00-17:30			
Parallel Session W2 – Nanoparticles Chair: C. Gravalidis Room: Timber Hall II	W3 – Nanomedicine: Nanoprticles in Nanomdeicine II Chair: A. Alexandrou, J. Chen Yong Kah Room Timber Hall I	SWorkshop to honor Prof. Yannis Missirlis Session III: Interactions on Functional Bio-Nano-Interphases Chair: T. Choli Papadopoulou, M. Katsikogianni Room: Crystal Hall	SWorkshop: Renewable Energy & Storage III Room: Dock SicX I Chair: I. Monacholias, P. Giannoules
15:00-15:15 EU Project Towards a classification strategy for complex nanostructures V. Castagnola, Center for Bionano Interactions (CBNI), Ireland	15:00-15:30 Invited Reactive oxygen species (ROS) detection with nanosensor particles : in vitro and in vivo applications A. Alexandrou, Laboratory for Optics & Biosciences, Ecole Polytechnique, France	15:00-15:30 Invited Bacteriophages with or without plasmonic nanoparticles are potential active agents for diagnosis and therapy of bacterial infections/contaminations E. Piskin, Hacettepe University, Turkey	15:00-15:30 Running the autonomous island networks - From the point of view of the operation company K. Kaousias, Head of Power Control Systems' Operation Section, HEDNO, Greece
15:15-15:30 Tuning of nanoceria properties via a hydrothermal method K. Kappis, University of Patras, Greece	15:30-16:00 Invited Protein Corona around Gold Nanorods as a Drug Carrier for Combined Photodynamic and Photothermal Therapy in Small Animals in vivo J. Chen Yong Kah, National University of Singapore, Singapore	15:30-16:00 Invited Effect of surface chemistry and morphology on electrostatic interactions between peptides and inorganic surfaces A. Stamboulis, University of Birmingham, UK	15:30-16:00 The Greek RES market. Current status and perspectives C. Keramiotis, Public Power Company Renewables S.A., Greece
15:30-15:45 Chemical Synthesis of inorganic nanomagnets C. Petit, Sorbonne Universités, France.			
15:45-16:00 EU Project Designing a Sustainable European Centre for Risk Management and Safe Innovation in Nanomaterials and Nanotechnologies (EC4SafeNano) E. Marcoulaki National Centre for Scientific Research «Demokritos», Greece	16:00-16:15 Incorporation of Ag NPs into non-woven matrix towards microbial interventions of Orthopaedic Implants M.D. Perli , LTFN, Greece	16:00-16:20 Invited From the macroscopic thermodynamics of bio-interfaces to the nano-aspects of regenerative medicine S. Agathopoulos, University of Ioannina, Greece	16:00-16:30 An innovative concept for energy independent districts exploiting mCHP technologies Prof. Maria Founti, National Technical University of Athens, Greece
16:00-16:15 Structural investigation of carbon morphology	16:15-16:30 The full integrated sensing device for Non-	16:20-16:40 Invited Cell instructive surfaces for implantable devices	16:30-17:00 Tilos Project - Technology Innovation for the Local

<p>on Ni/Lanthanum-Zirconium oxide catalysts used for the biogas dry reforming reaction I.Tsiaoussis, Aristotle University Thessaloniki, Greece</p>	<p>Invasive Breath Test for Early Diagnosis of Tropical Diseases D.Ulieru, SITEX 45 SRL,Romania</p>	<p>A. Repanas, Martin-Luther-Universität Halle-Wittenberg, Germany</p>	<p>Scale Optimum Integration of Battery Energy Storage Prof. Ioannis Kaldellis, Head of the Soft Energy Application Lab, Piraeus University of Applied Sciences, Greece</p>
<p>16:15-16:30 Ultrafast charge dynamics in CuInS2 quantum dots M. Cadirci, Duzce University, Turkey</p>	<p>16:30-16:45 Polycationic nanovectors based on hyperbranched polyethylenimine conjugated to β-cyclodextrin for DNA packaging and release C. M. Uritu "Petru Poni" Institute of Macromolecular Chemistry, Romania</p>	<p>16:40-17:00 Invited Next Generation Antimicrobial Devices and Efficacy Testing in the Scope of iPROMEDAI COST Action TD1305 M. Katsikogianni, University of Bradford, UK</p>	<p>17:00-17:30 Smart Hybrid Systems Utilizing Renewable Energy Dr. Spyros S. Voutetakis, Researcher A Director of P.S.D.I. of C.P.E.R.I/CE.R.T.H</p>
<p>16:30-16:45 The cobalt (II) oxide shells: the study of its role for the stability of the cobalt nanoparticles and the measurements of the size of the unoxidised core using the Faraday effect A. Gremppka. University of Warsaw, Poland</p>	<p>16:45-17:15 Innovative Fiber – Based Bioscaffolds for Bone Tissue Repair and Regeneration A. R. Tsiapla, LTFN, AUTH Greece</p>		
<p>16:45-17:00 Advances in the Development of Nano-Based Drilling Fluids for Optimization in Hydrocarbon Exploration V. C. Kelessidis Petroleum Institute, Abu Dhabi</p>	<p>17:15-17:30 Global health impacts of nanotechnology law: The legend of asbestos that haunts future innovation in nanotechnology I. Feitshans, Institute for Work and Health University of Lausanne, Switzerland</p>	<p>17:00-17:20 Closing Remarks by Prof. Y. Missirlis</p>	
<p>17:30-18:30 AWARDS CEREMONY <i>Room: Crystal Hall</i> NN17 CLOSING REMARKS</p>			

Workshop 1: Plasmonics - Nanoelectronics & Clean Energy	
P1-1	Size effect and local atomic scale properties of Lanthanide doped nanoparticles Daniel Avram, National Institute for Laser, Plasma and Radiation Physics, Bucharest-Magurele, Romania
P1-2	Negative differential resistance in incandescent lamps' tungsten wires I. Samaras, Aristotle University of Thessaloniki, Greece
P1-3	Thermal behaviour and dielectric properties of ZrO₂-PMMA hybrid systems and spin-coated thin films Viorica Plescan (Ghisman), University of Galati, Galati, Romania
P1-4	Microwave-assisted hydrothermal synthesis of 1D nanostructured ZnO based layers for optoelectronic applications A. Filip, University of Galati, Romania
P1-5	Investigation of luminescence in quantum-structure-based OLED's systems P. A. Orłowski, University of Warsaw, Poland
P1-6	Colourful reversible electrodeposition device Tae-Youb Kim, Electronics and Telecommunications Research Institute, Korea
P1-7	High transparent electrochromic mirror device Chil Seong Ah, Electronics and Telecommunications Research Institute, Korea
P1-8	ANFIS-based approach to predict the degradation-related ageing of nanoscale DG MOSFET F. Djeflal, LEA, Department of Electronics, University of Batna 2, Batna 05000, Algeria.
P1-9	Negative Capacitance in Optically Sensitive Metal-Insulator-Semiconductor-Metal Structures on silicon-on-insulator V. Mikhelashvili, Dept. of Electrical Engineering and Russell Berrie Nanotechnology Institute, Technion-IIT, Israel
P1-10	Effect of Silicon doping on the electrochemical properties of Molybdenum Phosphide nano-cluster anode for Lithium Ion Batteries Gumjae Park, Korea Electrotechnology Research Institute, Republic of Korea
P1-11	Au and Cu sub-nanoclusters dispersed on nanoceria for preferential CO oxidation reaction J. Papavasiliou Foundation for Research and Technology-Hellas (FORTH), Greece
P1-12	Young Researcher Applicant Highest conversion efficiency of graphene/Si schottky junction solar cell with a graphene back-contact cell structure A. Suhail, Plymouth University, , UK
P1-13	Au/MWNTs Composite as an Efficient Oxygen Reduction Reaction Catalyst K. Luo, Guilin University of Technology P R China
P1-14	Interconnection of point defect parameters with bulk properties in solids N.V. Sarlis ¹ , National and Kapodistrian University of Athens, Greece
P1-15	Titanium dioxide nanoparticles as the electron charging layer for rechargeable battery application Min-Chuan Wang, Institute of Nuclear Energy Research, Taiwan (ROC)
P1-16	Design of a high-efficiency CuGaSe₂/ultrathin-Si heterojunction solar cell with CuInSe₂ as the bottom absorption layer B.H. Tseng, National Sun Yat-Sen University, Taiwan
P1-17	Laser-Induced Photothermal Process for Converting Au Powders to Highly Stable Nanoparticles with a Narrow Size Distribution Jeeyoung Lee, Yonsei University, Korea
P1-18	Tuning Resonant Properties of Plasmonic Nanoislands V.Zhurikhina, Peter the Great St. Petersburg Polytechnic University Russia
P1-19	Young Researcher Applicant Plasmonic heating efficiency by Core-Shell SiO₂@Ag⁰ Nanoparticles Konstantinos Moularas, University of Ioannina, Greece
P1-20	Tuning of Plasmonic Properties in Liquid Crystalline Gold Nanoparticles Obtained by Anti-Galvanic Reduction G. Kolodziej University of Warsaw Poland
P1-21	Plasmonically-enhanced oxidation catalysis A. Gemenetzi University of Ioannina, Greece
P1-22	

Workshop 2– Nanomaterials, Nanofabrication, Nanoengineering & Nanoconstruction	
P2-1	2D Nanoprofiling of glass surface with thermal poling A. Lipovskii Peter the Great St. Petersburg Polytechnic University, Russia
P2-2	Investigation of the mechanical properties of multilayered CrN/TiN coating for orthopaedic and dental applications S. Rabadzhyska Bulgarian Academy of Sciences Bulgaria
P2-3	Improvement of Thermoplastic Elastomer Degradation Resistance by One-step Aleatory Nanostructures Delineation E. C. Rangel ¹ Paulista State University, Brazil.
P2-4	Characterization of W-B-C nanostructured coatings - microstructure and mechanical properties J. Buršík Czech Academy of Sciences, Czech Republic
P2-5	Early stages of AlN growth process on oxygen-terminated diamond(111) surface:a DFT studies M. Sznajder , University of Rzeszow, Rzeszow, Poland
P2-6	Investigation of Ag Content on Tribological Properties of Cr-Ag-N Nanocomposite Coatings Z. Kahraman, ZKS Endüstriyel Arge Mühendislik Hizmetleri Tic. Ltd. Şti.Istanbul/TURKEY

P2-7	Correlation between optical properties and thickness of the exfoliated transition metal dichalcogenides – MoS₂, MoSe₂, MoTe₂, WSe₂ Łempicka K. <i>University of Warsaw, Poland</i>
P2-8	Structural and optical properties of Mg_xZn_{1-x}O layers obtained by Atomic Layer Deposition. P. Puła <i>University of Warsaw, Poland</i>
P2-9	Nano-Enhanced Thin-Film Composite Membranes with Polydopamine/Graphene Oxide Interlayer Seung-Eun Nam, <i>Korea Research Institute of Chemical Technology (KRICT), Republic of Korea</i>
P2-10	The Use of Ethanolic KOH as Solvent for Electrospinning of Polybenzimidazole Fibers and Yarns H. Penchev, <i>Institute of Polymers – BAS Acad., Bulgaria</i>
P2-11	Aluminum Pouch Film for Secondary Battery Dong Soo Kim <i>Hanbat National University, Republic of Korea</i>
P2-12	Formation of Self-Organized TiTa₂O₇ Layers by 75Ta-Ti Alloy Anodization. T. A. S. Soares <i>Centro de Tecnologias Estratégicas do Nordeste</i>
P2-13	Combined Resonance of Magnetically Influenced Nanobeam on Fractional Visco-Pasternak Type Foundation M. Lazarević <i>University of Belgrade, Serbia</i>
P2-14	Synthesis and adsorption properties of activated carbon obtained from waste tire granulate Ebert J. <i>University of Warsaw, Poland</i>
P2-15	1,8-diamino-3,6-dicyanocarbazole – a new colorimetric and fluorescent building block for the construction of anion sensing catenanes and rotaxanes J. Wagner, <i>University of Warsaw, Poland</i>
P2-16	Fabrication of electric contacts to single SnTe nanowire by electron beam lithography Polaczyński J <i>Polish Academy of Sciences, Warsaw, Poland</i>
P2-17	Photo-mineralization of dyes mixtures in nanostructured heterogeneous fluids E.A. Rogoza <i>University POLITEHNICA of Bucharest, ROMANIA</i>
P2-18	Removal of ionic dyes mixtures from textile industry wastewaters using microemulsion systems C.A. Lazar <i>University POLITEHNICA of Bucharest, ROMANIA</i>
P2-19	Quantum State Tomography on ¹³CHCl₃ system using NMR spectroscopy F. Maciejewski <i>University of Warsaw, Poland</i>
P2-20	Nanosecond resolution calorimetry using Dayem nanobridges Bartmanski M. <i>University of Warsaw, Poland</i>
P2-21	Thermophysical properties of ethylene based magnesium oxide nanofluids G. Żyła <i>Rzeszow University of Technology, Poland</i>
P2-22	Microstructure of DD₃Fe₃CoSb₁₂ skutterudites with addition of metallic borides J. Buršík <i>Czech Academy of Sciences, Czech Republic</i>
P2-23	The influence of the environment and effect of synthesis parameters for obtaining of nanocomposite graphene/Fe₂O₃. D. Sibera <i>West Pomeranian University of Technology, Poland</i>
P2-24	Optimization of toxic biological compound adsorption from aqueous solution onto Silicon and Silicon Carbide nanoparticles through response surface methodology Vinod Kumar Gupta <i>Department of Applied Chemistry, University of Johannesburg, Johannesburg, South Africa</i>
P2-25	Atomic-deficient structural arrangement of multinanoparticle composites based on arsenic sulfides As₄S₄ Oleh Shpotyuk <i>Institute of Physics of Jan Dlugosz University in Czestochowa, Poland</i>
P2-26	Novel zeolite-like pore structure carbon nanomaterials for CO₂ capture. M. Vorokhta <i>Academy of Sciences of the Czech Republic, Czech Republic</i>
P2-27	Synthesis of undoped and Pd-doped LaMnO₃ at low temperature: structural characterization and electrical properties evaluation P. Sfirloaga <i>Institute for Research and Development in Electrochemistry and Condensed Matter, Romania,</i>
P2-28	Influence of PdS on photocatalytic activity of Cd_{1-x}Zn_xS nanocrystals D. Ursu <i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania</i>
P2-29	Microwave-assisted hydrothermal synthesis and physico-chemical characterization of CuMnO₂ type nanomaterials M. Poienar <i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania</i>
P2-30	Preparation And Characterization Of Poly(Vinyl Alcohol)/Na⁺ Montmorillonite Nanocomposite Hydrogels M. Belioka <i>Department of Chemical Engineering, AUTH, Greece</i>
P2-31	Hydrothermal synthesis of cupric oxide nanoplates with 3D hierarchical flower-like structures M. Miclău <i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania</i>
P2-32	Hydrothermal synthesis of copper metaborate nanoplates with 3D hierarchical flower-like structures M. Miclău <i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania</i>
P2-33	Nano ferrites of lanthanides and their magnetic properties P.M. Pimentel <i>Universidade Federal Rural do Semi-Árido, CMA, Angicos, RN, Brazil</i>
P2-34	Obtaining and characterization of p-n inorganic junction using TiO₂ like n component C. Lazau <i>National Institute for Research & Development in Electrochemistry and Condensed Matter, Romania</i>
P2-35	Preparation and optical properties of Cd_xZn_{1-x}Se alloy nanocrystals and Cd_xZn_{1-x}Se/ZnS core/shell nanoparticles Yueh-Chi Chung, <i>National University of Kaohsiung, Republic of China</i>
P2-36	Controlling the piezoelectric coefficients through an external magnetic field in a composite PZT-5%Fe₃O₄ system G. Vertsioti <i>National Center for Scientific Research 'Demokritos', 153 10, Aghia Paraskevi</i>
P2-37	Polyelectrolyte microcapsules modified with metallic nanoparticles O. Szawcow <i>University of Warsaw, Poland</i>
P2-38	Use of silver nanoparticles synthesized using reducing agents obtained from orange, onion, aloe vera or nopal for production of

	antimicrobial textiles J. Gómez <i>Tecnoparque Nodo Bucaramanga, Colombia</i>
P2-39	Paper modified with green synthesized silver nanoparticles for antimicrobial applications J. Gómez <i>Tecnoparque Nodo Bucaramanga, Colombia</i>
P2-40	Nanofuels: Preparation and its application in pressure atomization Reza Sadr, <i>Texas A&M University at Qatar, Doha, Qatar</i>
P2-41	Kinetics of formation of silver and gold nanoparticles in mono- and binary hydrosols with sonication Stoinova Anastasia <i>Institute of Biochemical Technology and Nanotechnology, Russia</i>
P2-42	Characterization and valorization of industrial wastes (molecular sieves) in the gas complex of gp1/z by bet method and surface charge K.L Belarbi <i>Department of Industrial Organic Chemistry, Algeria</i>
P2-43	Nanoporous TiO₂-graphene pellet for photocatalytic degradation performance P. Porpin <i>Chulalongkorn University, Thailand</i>
P2-44	Synthesis, characterization and analytical application of nanocomposite Acrylonitrile zirconium (IV) silicate cation exchanger: Distribution and Selectivity studies Amjad Mumtaz Khan <i>Aligarh Muslim University Aligarh 202002(India)</i>
P2-45	Functionalization of Graphene Oxide and Carbon Nanotube via Click Chemistry and Their Polyurethane Nanocomposites Jae Whan Cho, <i>Konkuk University, Korea</i>
P2-46	Microscopic observation and micromechanical modeling to predict the enhanced mechanical properties of HDPE/graphene nanocomposites E. Tarani <i>Aristotle University of Thessaloniki, Greece</i>
P2-47	Functional UV Coating Composite for Steel Coating Hye-Jin Yoo, <i>POSCO Technical Research Laboratories, South Korea</i>
P2-48	Cascade reactions in polymersome clusters A. Belluati, <i>University of Basel, Swiss</i>
P2-49	Compression molding of ultra-high molecular weight polyethylene fibers D.I. Chukov, <i>NUST «MISIS», Russia</i>
P2-50	Carbon fiber reinforced composites based on high-temperature thermoplastic polymer matrices D.I. Chukov, <i>NUST «MISIS», Russia</i>
P2-51	Graphene as a Nano sorbent of heavy metals A. T. Dimitrov, <i>SS Cyril and Methodius University, FYROM</i>
P2-52	Electrochemical Synthesis and Characterization of Ppy/MWCNTs Nanocomposites P. Paunović, <i>SS Cyril and Methodius University, FYROM</i>
P2-53	Novel approach of Synthesis Self-assembling Block Copolymers and Liquid Crystals Hybrids Leniart A. <i>University of Warsaw, Poland</i>
P2-54	The effect of filler structure on the β-relaxation in epoxy/carbon fillers nanocomposites A. Stimoniaris <i>Western Macedonia University of Applied Sciences, Greece</i>
P2-55	Optical, structural and piezoresistance properties of rare-earth chalcogenide thin films Sousanis A., <i>Ghent University, Belgium.</i>
P2-56	Backside Absorbing Layer Microscopy (BALM): a new tool to study nanomaterials and their electrochemical properties Jaouen K. <i>LICSEN, NIMBE, CEA, CNRS, Université Paris-Saclay, France</i>
P2-57	SAMs on MgO - bridging the gap from UHV to real life applications Anastasiou E. <i>Friedrich-Alexander-University Erlangen-Nürnberg, Germany</i>
P2-58	Integration of Triboelectric Touch Sensor and Piezoelectric-based Haptic Feedback on a Single Film Solution. Ramzi AlMaghathuwi, <i>KAUST, Saudi Arabia, E-mail: MaghathuwiRS@sabic.com</i>
P2-59	High Performance InGaZnO Thin Film Transistors Under Controlled Sputtering Pressure Fahad K. Al-Salem <i>KAUST, Saudi Arabia,</i>
P2-60	Stress relaxation in decahedral small particles through circular prismatic dislocation loop formation M. Yu. Krauchanka <i>Peter the Great St. Petersburg Polytechnic University, Polytekhnicheskaya 29, St. Petersburg, 195251, Russia</i>
P2-61	Effect of Drugs and Antimicrobial ZnO NPs on the Mechanical Properties of PCL Scaffolds P.Gkertsiou, <i>Nanotechnology Lab LTFN</i>
P2-62	Wood-Plastic Nanocomposites from Recycled Fiberboards, Particleboards and Commodity Plastics George Panagiotou <i>School of Forestry and Environment, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece</i>
P2-63	Magnetic and Optical Properties of CeO₂/CeF₃ Composite Nanoparticles V.V. Pavlov, <i>Institute of Physics, Kazan Federal University, Russian Federation</i>

Workshop 3 – Nanomedicine

P3-1	Design nanocarrier for topical administration: In-vitro and in-vivo study Pao-Chu Wu ^{1*} <i>Kaohsiung Medical University, ROC</i>
P3-2	Surface Analysis of Nanocomplexes by X-ray Photoelectron Spectroscopy (XPS) Natalya Froumin <i>Ben-Gurion University of the Negev, Israel.</i>
P3-3	Photodynamic therapy mediated by aluminum-phthalocyanine chloride in nanoemulsions in the treatment of breast cancer in vivo Rodrigues M.C. <i>University of Brasília, Brazil</i>
P3-4	Synthesis and characterization of Temozolomide loaded nanoparticles, in-vitro toxicity evaluation and Drosophila Melanogaster as in-vivo model for Glioblastoma Multiforme treatment. Lina Cellante <i>Department of Industrial Chemistry "Toso Montanari", Alma Mater Studiorum</i>

P3-5	Assessment of the noncovalent interaction between FGF-2 and glycosaminoglycans by chip-nanoelectrospray high resolution mass spectrometry Adrian C. Robu National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania
P3-6	Ion mobility mass spectrometry: Mapping and structural characterization of human fetal hippocampus gangliosides Mirela Sarbu, National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania
P3-7	Versatile oil core based polymer multilayer nanocapsules for cancer therapy Di Cicco C. University Federico II, P.le Tecchio, Naples, Italy
P3-8	SI-Traceable Quantification of Specific Disease Related Biomarkers by Raman Spectroscopy S. Schmidt, Physikalisch-Technische Bundesanstalt (PTB), Germany
P3-9	Substrate-mediated gene delivery platform based on functionalized PEI/DNA polyplexes P. Melone University of Naples Federico II, Italy.
P3-10	Chitosan - nystatin - nanohydroxyapatite hybrid microspheres for bone tissue repair G. Ciobanu "Gheorghe Asachi" Technical University of Iasi, Romania;
P3-11	Integration of Anti-Cancer Drugs on Carbon Nanodots S. Şimşek Yildiz Technical University, Turkey
P3-12	Multifunctional gold-nanoparticles: a nanovectorization tool for the targeted delivery of novel chemotherapeutic agents Alexandra R Fernandes UCIBIO, Portugal
P3-13	Study of water-polymer interactions improve the relaxivity of nanostructured MRI contrast agents A. M. Ponsiglione University of Naples Federico II, Italy
P3-14	Molecularly imprinted polymers as plastic antibodies for cell imaging Paulina Ximena Medina-Rangel Sorbonne Universités, France
P3-15	Synthesis, and multiscale study of hybrid magnetic liposome nanocarriers of novel antioxidant metal-flavonoid complexes for targeted drug delivery E. Halevas Aristotle University of Thessaloniki, Greece.
P3-16	Cytotoxicity of Gold Nanoparticles in Red Blood Cells: Applications of Atomic Force Microscopy and Scanning Microscopy for Individual Biomedical Screening A.N. Kharlamov De Haar Research Foundation, The Netherlands,
P3-17	Folic acid functionalized nanorods for the targeted paclitaxel delivery L. Papaioannou, University of Patras, Patras, Greece
P3-18	Effect of nanoparticle coating on the electrical conductivity of liver tissue P. Łaski University of Warsaw, Poland
P3-19	Biocompatible Gold Nanorods for applications in photothermal therapy of cancer- cells N.Kolsut University of Warsaw, Poland
P3-20	Preparation and Characterization of Magnetic Fe3O4 Nanoparticles Doped with Yttrium Ions with Potential Application in Biomedicine Grzączkowska P. Institute of Physics Polish Academy of Sciences, Poland
P3-21	Chitosan- hydroxyapatite nanocomposite layers for enamel remineralization V. Ghisman Pleşcan, "Dunărea de Jos" University of Galati, Romania,
P3-22	An Induction Heating Study for Breast Cancer Treatment M. Zuvın, Sabanci University, Turkey
P3-23	MC3T3-E1 pre-osteoblasts response to sericin-graphene coated substrates M.Dinescu National Institute for Lasers, Plasma and Radiation Physics, Romania
P3-24	Young Researcher Applicant Evaluation of acute toxicity of peptides conjugated gold nanoparticles: Potential agents in the diagnosis of colorectal cancer O.B. Adewale Nelson Mandela Metropolitan University, South Africa
P3-25	Radiation Synthesis and Characterization of Chitosan/Hyaluronic Acid/Hydroxyapatite Nanocomposite Hydrogels: Drug Uptake and Delivery Systems B. Taşdelen Namık Kemal University, Turkey
P3-26	Particles with engineered nanoshell for cardiovascular biomarker detection in complex fluids Caputo T.M. <i>University of Naples Federico II, Italy.</i>
P3-27	Use of Click Chemistry to Generate Glycosylated Silica Nanoparticles Targeting and Activating Dendritic Cells Korotchenko E. <i>University of Salzburg, Austria</i>
P3-28	Inorganic coating of luminescent porous silicon by ALD technique to enhance optical stability for biomedical applications Chistè E. <i>University of Verona, Italy,</i>
P3-29	Bioimitative Nanoplatfoms Loaded with Drugs as Coating for Drug Eluting Stents <u>Veroniki Bakola</u> Aristotle University of Thessaloniki, Greece
P3-30	Innovative Drug Eluting Nanoplatfoms for Bone Tissue Engineering <u>A. R. Tsiapla</u> Aristotle University of Thessaloniki, Greece
P3-31	Gold nanoparticles as drug carriers in MDA-MB-231 and MCF-7 breast cancer treatment Migurska E. <i>Warsaw University of Life Science, 02-786 Warsaw, Poland</i>
P3-32	CMCNPs: Next Generation Therapeutics Simran Asawa National Institute of Technology, India.
P3-33	Electrospun PCL fibers with PVP-capped ZnO nanoparticles for antimicrobial applications Z. Dardani Nanotechnology Lab LTFN, Greece
P3-34	Biphasic effects of ultradilute chemotoxic agents on cell viability and genotoxicity Leto Kyritsi Aristotle University of Thessaloniki, Greece
P3-35	Isotope dilution SERS as a validated reference measurement procedure for the quantification of diagnostic markers in human serum R. Stosch, Physikalisch-Technische Bundesanstalt, Germany

P3-36	Encapsulation of Quercetin in Biodegradable Polymer Nanofibrous Membranes C. Panayiotou, Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
P3-37	

Workshop 4 – Bioelectronics	
P4-1	Development of ratiometric fluorescent membranes based on CdSe/ZnS QDs and a fluorescent dye for hydrogen peroxide detection Duong H.D. Rhee J.I. Chonnam National University, Republic of Korea
P4-2	Surface Functionalized Carbon Dots as Fluorescent Nanolabels Rukan Genc Mersin University, Turkey.
P4-3	As-Se-based glasses doped with rare-earth ions for biosensing applications Ya. Shpotyuk Center for Innovation and Transfer of Natural Sciences and Engineering Knowledge, Poland
P4-4	The overlooked role of a protein channel: Generation of pulsed electromagnetic wave in a biosystem F. Yang, Peking University, China;
P4-5	Hybrid gold-coated micellar composites for point-of-need biothiol sensing using consumer electronic devices Dimosthenis L. Giokas, University of Ioannina, Greece
P4-6	Smart Electrochemical Signaling of Bisphenol A with Silver-doped ZnO on Screen Printed Electrodes Krishna Bisetty, Durban University of Technology, South Africa
P4-7	To map the temperature distribution of a single cell S. Y. Xu, Peking University, China;
P4-8	Detecting a Persistent Organic Pollutant Polychlorinated Biphenyl with Biosensor Based on Total Internal Reflection Imaging Ellipsometry Y. Niu Chinese Academy of Sciences, Beijing, China
P4-9	Intrinsic Signal-to-Noise Ratio of a Single Receptor Biosensor Z. Djurić, Institute of Technical Sciences of SASA, Serbia
P4-10	Deterministic versus Stochastic Analysis of Competitive Adsorption in Microfluidic Biosensors Z. Djurić, Institute of Technical Sciences of SASA, Serbia
P4-11	Detection of E-coli with a microfluidic chip M. Filipescu, National Institute for Lasers, Plasma, and Radiation Physics, Romania
P4-12	Macroscopically Ordering Effect of Self-Assembled Monolayers by anisotropic underlying substrate for controlling the chain tilting direction Y. -C. Shin, J. -S. Park and H. -R. Kim, Kyungpook National University South Korea

Workshop 5 – Graphene And Related Materials	
P5-1	Graphenes as potential oil-spill cleaners George Z. Kyzas, Eastern Macedonia and Thrace Institute of Technology, Greece
P5-2	Air-stable Au doping of graphene by hybridizing with graphene oxide for flexible transparent electrodes Sun Sook Lee, Korea Research Institute of Chemical Technology, Korea
P5-3	In-situ Raman Spectroscopy of Solution Gated Epitaxial Graphene Field-Effect Transistors J. Binder University of Warsaw, Poland,
P5-4	Polymer-assisted large-area sublimation growth of epitaxial graphene on SiC S. Wundrack Physikalisch-Technische Bundesanstalt, Germany
P5-5	Simulation and analysis of Graphene-based nanoelectronic circuits using ANFIS method F. Djeflal University of Batna 2, Algeria.
P5-6	Shungite derived graphene nanoplateles as multifunctional filler for polypyrrole-based hybrid nanocomposites Politi S. University of Rome Tor Vergata, Italy
P5-7	Smoke Detector based on Ultra –Violet sensitive Organic Photodiode with Graphene electrode E. M. Pechlivani, Organic Electronic Technologies (OET), Greece
P5-8	Growth, characterization and transfer of CVD Graphene V. Kyriazopoulos, Nanotechnology Lab LTFN, Greece
P5-9	Keggin Type Polyoxotungstate/ Oxy Graphene Nanocomposite Multilayer Films For Photocatalyst Application Yasemin Topal Selcuk University, Turkey