

GROUP PHOTO

FNMA'12 conference will be held on Aegina Island (Greece) **on 23-27 September 2012**.

The aim of the Conference is to provide an opportunity for a meeting of scientists and technologists working on novel functional and nanostructured materials.

The conference programme will cover experimental investigations, theory and modelling of:

- Photonic and optoelectronic materials
 - Magnetic materials and diluted magnetic semiconductors
 - Catalytic and photocatalytic materials
 - Nanoparticle materials and nanolithography
 - Nanobiotechnology
 - Physics and technology of nanostructured semiconductors and superconductors
 - Metamaterials with special emphasis on Auxetic materials and models
 - Thin and thick films
 - Organic, hybrid and composite materials
 - Micro/Nano Electro Mechanical Systems (MEMS/NEMS): technology and applications
 - Physics and technology of carbon nanotubes and carbon-based materials
 - Industrial applications of nanotechnology
 - Nanotechnology Health & Safety
 - Photovoltaics
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[Department of Solid State Physics, Faculty of Physics,
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[Institute of Physics, Faculty of Mechanical Engineering and
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[Institute of Molecular Physics, Poznan, Poland](#)



[PWSZ im. St. Wojciechowskiego, Kalisz, Poland](#)



[University of Zielona Gora, Poland](#)

In cooperation with:



[TASK - Academic Computer Centre in Gdansk, Poland](#)



[Poznan Supercomputing and Networking Centre, Poland](#)



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[Polish Physical Society](#)

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- K.L. Alderson (Bristol, UK)
- F.J. Baltá-Calleja (Madrid, Spain)
- J. Barnas (Poznan, Poland)
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- N. Sarlis, University of Athens
- A. Spanopoulou, University of Athens
- Ch. Trapalis, Demokritos, Athens
- B. Zapotoczny, University of Zielona Gora, Poland

Our lecturers

- A. Alderson (Bolton, UK)
- A. Amirabadizadeh (Birjand, Iran)
- M. Banaszak (Poznan, Poland)
- J. Barnas (Poznan, Poland)
- J. Bernholc (Raleigh, USA)
- I. Chadziagapiou (Athens, Greece)
- S. Dmitriev (Ufa, Russia)
- M. Dudek (Zielona Gora, Poland)
- A. Ezquerra (Madrid, Spain)
- A.C. Griffin (Atlanta, USA)
- J. Grima (Msida, Malta)
- B. Grzybowski (Evanston, USA)
- A. Imre (Budapest, Hungary)
- A. Koper (Poznan, Poland)
- W. Kempinski (Poznan, Poland)
- A. Malakis (Athens, Greece)
- H. Mizuta (Southampton, UK)
- B. Padlyak (Lviv, Ukraine)
- G. Papavasiliou (Dimokritos, Athens)
- H.X. Peng (Bristol, UK)
- D. Petridis (Athens, Greece)
- P. Polanowski (Lodz, Poland)
- J. Rybicki (Gdansk, Poland)
- N. Sarlis (Athens, Greece)
- F. Scarpa (Bristol, UK)
- K. Schulte (Hamburg, Germany)
- A. Sikorski (Warsaw, Poland)
- I. Skorvanek (Bratislava, Slovakia)
- E. Soboleva (Yurga, Russia)
- Ch. Trapalis (Athens, Greece)
- K. Tretiakov (Poznan, Poland)
- T. Tsuboi (Kyoto, Japan)
- J. Typek (Szczecin, Poland)
- K.W. Wojciechowski (Poznan, Poland)

Sunday, 23 September - Arrival Day

Monday, 24 September

9:00 - 9:15		Opening
9:15 - 10:00	A.C. Griffin	Nanoscale origins of thermally-driven strain recovery in some shape-memory liquid crystalline networks
10:00 - 10:30	D. Gournis	Novel Synthetic Approaches for Development of Two-Dimensional Hybrid Functional Materials
10:30 - 11:00	A. Sikorski	Dynamics of polymer chains near a patterned surface in a slit and in a tube – a computer simulation study
11:00 - 11:15		Coffee break
11:15 - 12:00	X.M. Duan	Microstructures of functional polymer nanocomposites fabricated by two-photon photopolymerization
12:00 - 12:45	F. J. Baltá-Calleja	Nanostructure characterization of multilayered polymers using synchrotron radiation techniques: crystallization phenomena
12:45 - 13:15	K. Kwiatkowski	Multiphase reactive blends based on thermoplastic polyester
13:15 - 14:15		Lunch
14:15 - 15:00	C. Trapalis	Graphite to graphene oxide conversion and decoration with silver nanoparticles using solar light
15:00 - 15:30	D. Petridis	Pillaring of GO by stabilized cationic benzidine free radicals
15:30 - 16:00	P. Zygouri	A modified Langmuir-Schaefer approach to synthesis of highly-ordered clay/carbon nanotube hybrids
16:00 - 16:15		Coffee break
16:15 - 17:00	K. W. Wojciechowski	Materials of Anomalous Mechanical Properties
17:00 - 17:30	E. Soboleva	Poisson's ratios of Cu ₂ O crystals under temperature changes
17:30 - 18:00	N. V. Sarlis	Similarity of fluctuations of critical systems in natural time

Tuesday, 25 September

9:15 - 10:00	G. Papadopoulos	
10:00 - 10:30	S. P. Kruchinin	Andreev Billiard States of Hybrid Superconducting Nanowires
10:30 - 11:00	I. Hadjiagapiou	Three-dimensional Ising model with fluctuating exchange integral in asymmetric bimodal random field: effective field theory – differential operator technique
11:00 - 11:15		Coffee break
11:15 - 12:00	W. Nawrocki	Towards quantum limits in scaling of electronic devices
12:00 - 12:30	Z. Gburski	Influence of graphene on cholesterol lodgment localized on protein surface – computer simulation study
12:30 - 13:00	Z. Czech	Solvent-based acrylic pressure-sensitive adhesives crosslinked using UV-radiation
13:00 - 14:00		Lunch
14:00 - 14:30	P. Polanowski	Cooperative dynamics in frame of a dynamic lattice liquid (DLL) model as a tool to simple and complex liquids simulations
14:30 - 15:00	M. R. Dudek	Filling porous silicate glasses with Fe ₃ O ₄ magnetic nanoparticles
15:00 - 16:30	W. Kempniński	Localization of carriers and spins in nanocarbons
15:30 - 16:00		Coffee break
16:00 - 17:30		Poster session

Wednesday, 26 September

9:15 - 10:00	M. Grinberg	High pressure study of localized states related to Ln ³⁺ and Ln ²⁺ ions in solids
10:00 - 10:30	B. V. Padlyak – A. Drzewiecki	Structure, magnetic properties and FMR spectroscopy of Ni-Al nanoferrites
10:30 - 11:00	U. Narkiewicz	Structural and luminescent properties of the microwave hydrothermal synthesized ZrO ₂ nanopowders
11:00 - 11:15		Coffee break
11:15 - 11:45	J. Typek	Comparison of magnetic characterizations of nanoparticles obtained by SQUID magnetometry and FMR
11:45 - 12:15	A. Morawski	The EPR study of annealing and rinsing of TiO ₂ nanocrystalline materials
12:15- 12:45	N. Gouskos	EPR/FMR studies of cement slurry with different concentration of magnetite
12:45 - 13:00		Lunch
EXCURISON - EGINA ISLAND		

Important Deadlines

Important Deadlines

- registration and abstract submission: **28 May 2012**
- abstract acceptance: **4 June 2012**
- early payment: **15 June 2012**
- last minute registration and payment (expensive): **1 September 2012**
Please note that after June, 15th the admission fee increases by 100 Euro.
- paper submission: **30 September 2012**

Please send your contributions to prof. J. Rybicki, ryba@pg.gda.pl

For information about how to pay the fee follow [this link](#)

Fees and payment

Fees

- Before June, 15th:
 - 200,- Euro - regular fee
 - 100,- Euro - student fee
- After June, 15th:
 - 300,- Euro - standard fee
 - 200,- Euro - student fee

The fee covers conference materials and local organisation costs.

Method of payment

Payment has to be done by bank transfer to:

Account name/payment title:	Special Account for Research Grants of the National and Kapodistrian University of Athens, Conference FNMA'12
Bank name	Emporiki Bank
Address	1 Korai & Stadiou str., 105 64 Athens, Greece
Number	81706531
IBAN	GR05 0120 5540 0000 0008 1706 531
BIC	EMPOGRAA

IMPORTANT:

Please send a copy of the bank confirmation of your conference fee payment by fax or e-mail (pdf file) to:

Ms. Angieliki Spanopoulou
fax: 0030 210 7276987
e-mail: aspanop@phys.uoa.gr

Accommodation during the conference

Hotel Apollo, Agia Marina, Aegina Island, Greece

- Accommodation prices (breakfast included):
 - Single room: 35 EUR
 - Double room: 50 EUR
 - Triple room: 60 EUR
- Meals at the hotel:
 - Lunch: 11 EUR
 - Dinner: 15 EUR
 - Coffee break: 6 EUR (2 per day)
- Conference excursion (Egina Island): 10 EUR

Please book your room directly at the hotel website -

<http://www.apollohotelaegina.gr/en>

Satellite events

3rd Workshop on Unusual Materials will be held in Agia Marina, Aegina Island, Greece on **28-30 September 2012**. *Personal invitation only*