

The **FNMA'14** Conference will be held in Camerino (Italy)  
on **1-5 September 2014**

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
  - Nano- and Micro-sized materials for electronics
  - Nanoparticle materials and nanolithography
  - Nanobiotechnology
  - Physics and technology of nanostructured semiconductors and superconductors
  - Metamaterials with special emphasis on Auxetic materials and models
  - Ab initio methods for nanospectroscopy
  - 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
- .....



[University of Camerino, Italy](#)



[Department of Solid State Physics, Faculty of Physics,  
University of Athens, Greece](#)



[Department of Solid State Physics, Gdansk University of  
Technology, Poland](#)



[Institute of Molecular Physics, Poznan, Poland](#)



[Institute of Physics, Faculty of Mechanical Engineering and  
Mechatronic, \\_  
West Pomeranian University of Technology, Szczecin,  
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[Lublin University of Technology, Poland](#)



[University of Zielona Gora, Poland](#)



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

In cooperation with:

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



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- J. Rybicki (Gdansk, Poland)
- Sz. Winczewski (Gdansk, Poland)

- K.W. Wojciechowski (Poznan, Poland)

Conference programme	.....
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Abstract book can be downloaded from [here](#).

Monday, 1 September		
15:00 - 19:00		Registration
20:00		Get-together walk around Camerino center

Tuesday, 2 September		
10:00 - 12:00		Session 1: Superconductivity
10:00 - 10:15		Conference opening
10:15 - 11:00	A. Bianconi	Statistical physics of complexity by scanning nano X-ray diffraction: a new method probing mixed k-space real space unveiling functional scale free distributions in complex matter
11:00 - 11:30	A. Marcelli	Nanoscale phase separations in correlated materials by $\mu$ -XANES
11:30 - 12:00	A. Perali	Band-edge BCS-BEC crossover in a two-band superconductor: physical properties and detection parameters
12:00 - 12:30		Coffee break
12:30 - 14:00		Session 2: Energy
12:30 - 13:00	F. Croce	Electrospun electrolytes and electrodes for Li-ion batteries
13:00 - 13:30	I. Davoli	Thin film solar cells are real competitors for polycrystalline Si-based solar cells
13:30 - 14:00	M. A. Munoz-Marquez	Electrode-electrolyte interphase in negative electrodes for rechargeable Na-ion batteries
14:00 - 15:00		Lunch at Apogeo Restaurant
15:00 - 17:00		Session 3: Devices (I)
15:00 - 15:30	N. Malossi	Designing an electro-opto-mechanical device with SiN micro membranes
15:30 - 16:00	S. K. Shah	Characterization of solid-state dye-sensitized solar cells incorporating various hole transport materials and metal free organic dyes
16:00 - 16:20	B. Zapotoczny	Mesoporous silica containing USPIO in ibuprofen delivery and release systems
16:20 - 16:40	L. Wicikowski	Physical properties of glass with high manganese content
16:40 - 17:00		Coffee break
17:00 - 19:00		Poster session <a href="#">list of posters</a>
20:00		Dinner at Apogeo Restaurant

Wednesday, 3 September		
10:00 - 11:30		Session 4: Novel spectroscopies
10:00 - 10:30	C. Giannini	X-rays and electron diffraction imaging to study smart nano/bio materials
10:30 - 11:00	F. Baudelet	Self-sustaining $\alpha$ - $\epsilon$ phase transition in iron triggered by small magnetic perturbation
11:00 - 11:30	A. Witkowska	Hard X-ray absorption spectroscopy in application to ex-situ and in-situ structural analysis of close-packing metal nanoparticles
11:30 - 12:00		Coffee break

12:00 - 14:00		Session 5: Nanostructures
12:00 - 12:30	M. Gazda	Proton conducting ceramics - structure and properties
12:30 - 13:00	J. Felba	Nano- and micro-sized silver particles for electronic packaging
13:00 - 13:20	K. Szczodrowski	Heteroatom modified silica as a suitable co-dopant precursor in synthesis of silicate phosphors
13:20 - 13:40	E. Enrico	Surface nanostructuration by diblock copolymers
13:40 - 14:00	J. Rybicki	Computer simulations of mechanical and structural properties of graphene
14:00 - 15:00		Lunch at Apogeo Restaurant
15:00 - 20:00		Excursion to Grotte Frasassi
20:00 - 23:00		Gala dinner

Thursday, 4 September		
10:00 - 12:00		Session 6: Devices (II)
10:00 - 10:30	N. Guskos	Magnetic properties of molecular magnets
10:30 - 11:00	B. V. Padlyak	Spectroscopy of potential functional materials for quantum electronics based on borate glasses
11:00 - 11:20	G. J. Papadopoulos	Real time quantum tunneling
11:20 - 11:40	B. Koscielska	White light emission from $\text{Eu}^{3+}/\text{Tb}^{3+}/\text{Tm}^{3+}$ triply-doped $\text{GeO}_2\text{-PbO-Bi}_2\text{O}_3\text{-SrF}_2$ glass
11:40 - 12:00		Coffee break
12:00 - 14:00		Session 7: Special materials
12:00 - 12:30	S. J. Rezvani	Temperature dependence of diffusion induced Ge nanowire grown by MBE
12:30 - 13:00	R. J. Barczynski	Electrical conductivity and relaxation in oxide glasses
13:00 - 13:20	B. Bochentyn	Metal-oxide glass composites as potential materials for thermoelectric devices
13:20 - 13:40	J. Karczewski	Determination of ionic conductivity in (Pb, Bi)-(Si,Ge)-O oxide glasses
13:40 - 14:00	C. Aidinis	Magnetic properties of co-modified (Co,N)- $\text{TiO}_2$ nanocomposites
14:00 - 15:00		Lunch at Apogeo Restaurant
15:00 - 16:30		Session 8: Computational (I)
15:00 - 15:30	U. M. B. Marconi	Charge transport in nanochannels: a molecular theory
15:30 - 16:00	W. Alda	Molecular dynamics study on shock-wave simulations in porous media
16:00 - 16:30	Sz. Winczewski	Highly efficient calculation method of bond order parameters
16:30 - 17:00		Coffee break
17:00 - 18:30		Session 9: Computational (II)
17:00 - 17:30	J. Dziedzic	Divide-and-Conquer Learn-on-the-Fly: a hybrid quantum-classical approach for simulating the nanomechanical properties of metallic systems
17:30 - 17:50	K. M. Azzopardi	An investigation of the mechanical properties of a high pressure silica polymorph
17:50 - 18:10	K. Gorny	Dynamical properties of water embedded in reverse micelles - computer simulation study
18:10 - 18:30		Conference closing

Friday, 5 September		
		The Fifth Workshop on Unusual Materials

10:00 - 16:00

Discussion on unusual materials in thematic groups, sightseeing walk in Sibillini Mountains

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## Important Deadlines

### Important Deadlines

- registration and abstract submission: **11 July 2014**
- abstract acceptance: **18 July 2014**
- early payment: **1 August 2014**
- last minute registration and payment (expensive): **15 August 2014**

Please note that after July, 18th the admission fee increases by 50 Euro.

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

On-line Registration		.....
Deadlines		
Deadline for registration and abstract submission: <b>11 July 2014</b> Deadline for payment with reduced fee: <b>1 August 2014</b> <a href="#">More deadlines here</a>		
Notes about abstract submission		
The abstract should be prepared using any common variant of TEX (e.g. LaTeX); A template with the LaTeX file source is included <a href="#">here</a> . All you need to do is just put the text of your abstract into the marked places in the template file. Figures should be submitted as separate files, preferably in Encapsulated PostScript (EPS) or TIFF formats (300 dpi). The text and figure files should be packed in one archive and compressed using a common utility such as PKZip or tar + gzip. This ONE archive should be submitted as your abstract file. If you do not plan to include any figures in your abstract, you do not need to pack or compress it, just use the TEX file as the abstract.		
<b>Base data</b>		
Gender/Title	Mrs ▼      Professor ▼	required
First name:	<input type="text"/>	required
Family name:	<input type="text"/>	required
Organisation name:	<input type="text"/>	required
Postal address:	<input type="text"/>	required
Zip/postal code:	<input type="text"/>	required
City:	<input type="text"/>	required
Country:	Choice ▼	required
Telephone number:	<input type="text"/>	required
Fax number:	<input type="text"/>	required
E-mail address:	<input type="text"/>	required
Arrival date:	August, 30th ▼	required
Departure date:	September, 8th ▼	required
<b>Your presentation</b>		
Type of presentation:	None ▼	required
<b>If your presentation type is 'None', just leave this field empty.</b>		
Title:	<input type="text"/>	required
<b>If your presentation type is 'None' just leave this field empty.</b> Otherwise, if you plan to use figures, they should be submitted as separate files, preferably in Encapsulated PostScript (EPS) or TIFF formats (300 dpi). The text and figure files should be packed in one archive and compressed using a common utility such as PKZip or tar + gzip. This ONE archive should be submitted as your abstract file. If you do not plan to include any figures in your abstract, you do not need to pack or compress it, just use the TEX file as the abstract.		
Include your abstract:	Wybierz plik      Nie wybrano pliku	required
<b>Accompanying person details</b>		

Title:	<input type="text"/>		
First name:	<input type="text"/>		
Family name:	<input type="text"/>		
Accompanying person two:	<input type="text"/>		
Accompanying person three:	<input type="text"/>		

#### Other

Please, include important notes here.

#### Special dietary requirements

When the **register** button is pressed, the data will be verified. We really check all the required fields. If these details are not completely accurate, we will not be able to register you! Please double-check your entries before sending the details. Note: Our committee will examine your abstract. If it is accepted, your name should appear on the list of participants of the conference Web page.

## Fees and payment

### Fees

- Before August, 1st:
  - 225,- Euro - regular fee
  - 175,- Euro - student fee
- After August, 1st:
  - 275,- Euro - regular fee
  - 225,- Euro - student fee

The fee covers local conference costs, conference materials, 6 coffee breaks, 4 lunches, conference gala dinner and conference trip (Grotte Frasassi).

### Method of payment

Payment has to be done by bank transfer to:

Bank name:	Banca Delle Marche
Bank address:	Via Favorino 4, 62032 Camerino (MC), Italy
IBAN	IT83 P060 5568 8300 0000 0010 349
Purpose	FNMA14
BIC	BAMAIT3AXXX

### Name and address of organizers

Università di Camerino  
Scuola di Scienze e Tecnologie  
Sezione di Fisica  
Via Madonna delle Carceri 9  
62032 Camerino (MC)  
Italy

### IMPORTANT:

Please send a copy of the bank confirmation of your conference fee payment to:

prof. Roberto Gunnella

e-mail: [roberto.gunnella@unicam.it](mailto:roberto.gunnella@unicam.it)

Accommodation during the conference	
<p>The accommodation during the Conference will be in: Collegio Mattei 2 Colle Paradiso Via Le Mosse 62032 Camerino (MC), Italy</p> <p>Single rooms, EUR 25 per day, to be paid at the conference desk.</p>	

## Location

### Conference site:

Palazzo Ducale  
Aula Aranjó-Ruiz, Rettorato  
Piazza Cavour 19/F  
62032 Camerino (MC), Italy

### GPS coordinates:

latitude (decimal degrees):	43.135654
longitude (decimal degrees):	13.068729

[Here is the location map](#)

### The accommodation during the Conference will be in:

Collegio Mattei 2  
Colle Paradiso  
Via Le Mosse  
62032 Camerino (MC), Italy

### Meeting point:

Dipto. di Fisica  
Via Madonna delle Carceri 9  
62032 Camerino (MC), Italy

### GPS coordinates:

latitude (decimal degrees):	43.139708
longitude (decimal degrees):	13.067771
altitude (meters):	569

### Contact person:

prof. Roberto Gunnella  
telephone: (0039) 3204381060  
e-mail: [roberto.gunnella@unicam.it](mailto:roberto.gunnella@unicam.it)

### How to reach Camerino:

International travellers can arrive by plane in Rome and travel by train from Rome to Camerino. Camerino is reached from Rome as follows:

- From Fiumicino Airport take the direct train "Leonardo Express" to Roma Termini station departing every 30 minutes. Tickets can be purchased at the Airport train station.
- At Roma Termini station take the train to the station of Fabriano on the Rome-Ancona line.
- Take the local train for Civitanova Marche and get off at the station of Castelraimondo-Camerino.
- Take the connecting Contram bus marked with destination Camerino from the front of the station.

Information about some recommended trains connections (for 31st of August and 1st of September) can be found [here](#)

### Useful links:

[Public transport in Camerino](#)



Satellite events	
<b>5th Workshop on Unusual Materials, 5-7 September 2014, Camerino, Italy</b> <i>Personal invitation only</i> <a href="#">please login here</a>	

**5th Workshop on Unusual Materials, 5-7 September 2014, Camerino, Italy**  
*Personal invitation only* [please login here](#)