



The 11th International Conference and Workshop on
Functional and Nanostructured Materials

FNMA'14

1-5 SEPTEMBER, CAMERINO, ITALY

Tuesday 26th August Good afternoon

Home

Organizers

Committees

Frame programme

Deadlines

Registration

Fees and payment

Accommodation

Location

Satellite events

Frame programme

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

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

10:15 - 11:00 A. Bianconi

11:00 - 11:30 A. Marcelli

Nanoscale phase separations in correlated materials by
 μ -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

12:30 - 14:00

Coffee break

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: Nanostructures (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

[list of posters](#)

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 α - ϵ 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 (II)
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	A. W. Morawski	EPR spectroscopic and photocatalytic properties of TiO ₂ subjected to different annealing and rising processes
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
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 Eu ³⁺ /Tb ³⁺ /Tm ³⁺ triply-doped GeO ₂ -PbO-Bi ₂ O ₃ -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)-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. Dzedzic	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

10:00 - 16:00		The Fifth Workshop on Unusual Materials Discussion on unusual materials in thematic groups, sightseeing walk in Sibillini Mountains
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