

CARBOMAT 2011

WORKSHOP ON CARBON-BASED LOW DIMENSIONAL MATERIALS

December 5th-7th 2011 Catania (Italy)

Purpose

This Workshop aims to bring together researchers coming from multidisciplinary areas (physicists, chemists, biologists, engineers) and having complementary skills in order to present, from different points of view, state-of-the-art research findings in the field of nano-sized carbon based materials (nanotubes, fullerenes, linear chains, graphene, etc.).

The unique and tunable properties of carbon-based nanomaterials allow the development of new technologies in a broad range of applications: nanoelectronics, environmental and biological sensors, renewable energy technologies, antimicrobial agents, membranes, and

so on. For all these kinds of applications, a key role is played by the interactions between C nano-materials and a suite of elements, chemical groups, metals, antibodies, DNA molecules, enzymes, etc.

The main topics of the Workshop are: synthesis, functionalization, characterization, theoretical modelling and applications of low-dimensional carbon structures. Moreover, in this edition, a special session will be focused on the interactions of carbon nanostructures with chemical groups and functional molecules, and to the use of such systems for innovative sensors.

IMPORTANT DATES

Call for papers: **May 16th, 2011**

Short-abstract submission deadline: **July 15th, 2011**

Notice of abstract acceptance: **July 30th, 2011**

Final program: **September 16th, 2011**

Deadline for early registration (reduced fee):

September 30th, 2011

Extended-abstract submission deadline:

December 7th, 2011

TOPICS

- Nanotubes, fullerenes, linear chains, graphene...
- Synthesis and characterization
- Interactions with chemical groups and functional molecules
- Theoretical modelling
- Sensors based on carbon nanostructures
- Other Applications (nanoelectronics, photovoltaics, ...)

LOCATION

Diocesan Museum
P.zza Duomo - Via Etnea 8
95124 Catania

Chairs

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Antonino La Magna

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