

## Programme

DEMATEN Workshops

“Processing, Characterisation, Properties and Applications of Nanostructured Ceramics and Nanocomposites”

Second Workshop

“Structural and Functional Characterisation of Complex Materials”

June 3-5, 2010, Chalkidiki, Greece

## Welcome

We are pleased to invite you to the DEMATEN workshop which will take place from 3 to 5 June at the charming area of Chalkidiki Greece. This will be the second of a series of workshops on "Processing, Characterisation, Properties and Applications of Nanostructured Ceramics and Nanocomposites" organized annually within the framework of FP7 Project "DEMATEN". The focus of this year's workshop will be "Structural and Functional Characterisation of Complex Materials". The workshop is open to all interested scientists and there will be no registration fee.

[For flyer click here](#)

## Scope

The purpose of this workshop is to gather together a group of international scientists interested in modern characterisation techniques of complex materials, to discuss the invaluable importance of these techniques in understanding the materials, as well as the recent developments and cutting edge challenges of these techniques. We intent to concentrate on selected materials and techniques so as to provide a very specific focus to our discussions. Among the complex materials that will be discussed at the workshop will be nanostructured ceramics and nanocomposites

, as well as selected bulk organic or inorganic materials which exhibit fascinating properties revealed by their characterisation at nano-, micro- scales. Among the techniques that will be presented at the workshop will be

Neutron and Synchrotron X-ray scattering

,  
Atomic and Magnetic Force Microscopy  
and

Electron Microscopy

as applied in the study of complex multi-component, nanostructured and disordered materials.

Experiments at High Magnetic Fields

play an increasingly important role in the unraveling of novel states and exotic properties of complex materials and therefore will also be discussed at the workshop. The significant role of Modeling

will also be highlighted, as it is an indispensable tool to predict the functional and structural properties probed experimentally

by the above and other techniques.

The objective of the workshop is not only to provide a forum of presentation and discussion of new results but also to introduce the above techniques and materials to young scientists. There will be oral and poster presentations.

Topics:

- Nanostructured Ceramics
- Magnetic Nanoparticles
- Nanocomposites
- Polymer based Nanocomposites
- Multiferroics and Magnetic Semiconductors
- Neutron and Synchrotron X-ray Diffraction and X-Ray

Spectroscopies

- Electron Microscopy, Atomic and Magnetic Force

Microscopy

- High Magnetic Fields
- Modeling
- Structure-Property-Function Relationships

## Confirmed Invited Speakers:

- Allan Hurd - Los Alamos National Laboratory, USA
- Joseph L. Keddie - University of Surrey, UK
- Athanasios G. Konstandopoulos - Centre for Research and Technology, Greece
- Maria Katsikini - Aristotle University, Greece
- Mauro Rovezzi - Johannes Kepler University, Austria
- Mark Green - NIST, USA
- Milena Spirkova - Institute of Macromolecular Chemistry, ASCR, v.v.i., Czech Republic
- Markus Winterer - University Duisburg-Essen, Germany

## Organising Committee

- Evagelia G. Moshopoulou - IMS, NCSR "Demokritos", Athens, Greece
- Konstantinos P. Giannakopoulos - IMS, NCSR "Demokritos", Athens, Greece

- Dimitrios Kechrakos - School of Pedagogical and Technological Education, Athens, Greece

## Sponsors



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## Proceedings

Manuscripts submitted for the Workshop Proceedings will be published, after review, in a special issue of the International Journal ["Processing and Application of Ceramics"](#). They should have the format mentioned at the official site of the Journal, and should be sent (in pdf format) to

[Dr. Moshopoulou](#)

. Please keep the size of the manuscript below 3 MB.

## Venue

The workshop will be held at the "Aristoteles" Hotel in Ouranoupolis Chalkidiki, Greece.

Information on the hotel:



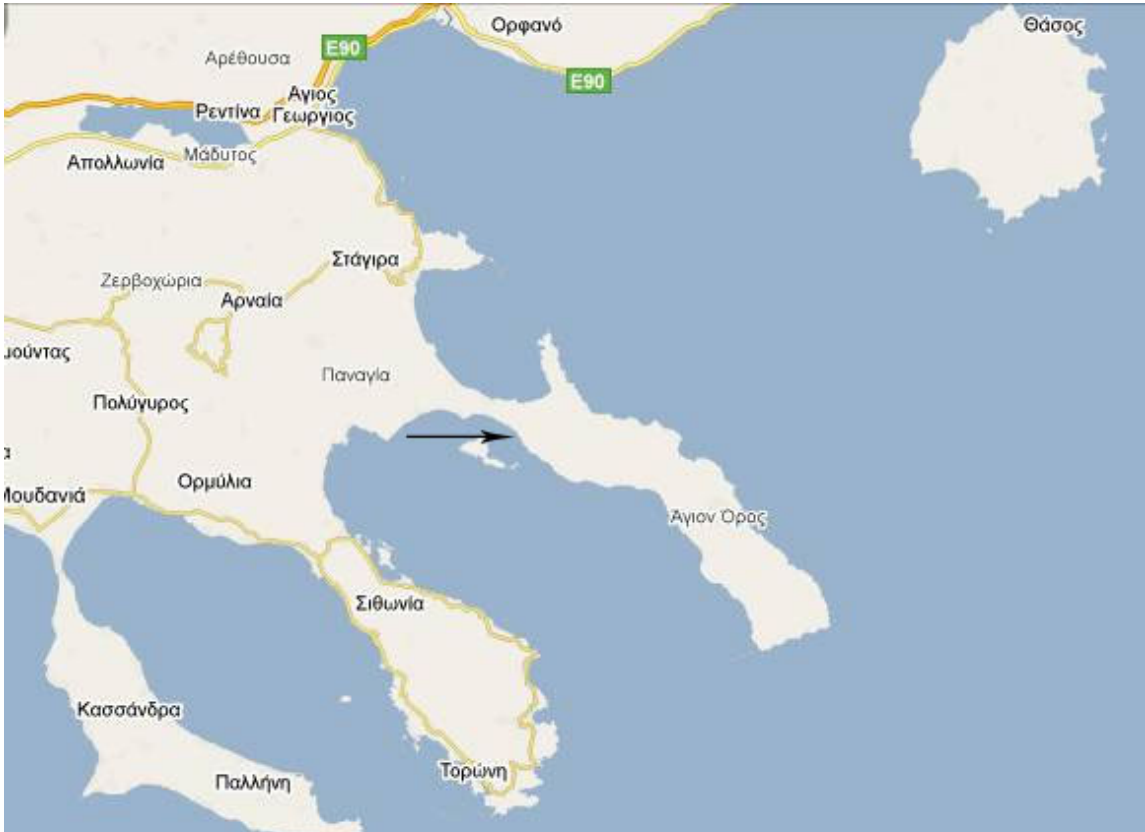
<http://www.aristoteles.gr/>



Information on the area can be found on the web site of the local municipality:

<http://www.ouranoupolis.gr/>

This site includes useful information in 4 languages, such as the history of the area (including Mount Athos), maps, weather travel information, bus time schedules from Thessaloniki (to Ouranoupolis) and a search tool for accommodation.



The 19th-century cartographer Heinrich Kiepert of the [Wiegand Institute](#) named the island in honor of the [British](#) archaeologist [John D. Beazley](#), who discovered the [ancient city of Thasos](#) in 1890. [Beazley](#) was the first to identify the island as the [ancient Thasos](#), which was the [ancient name of the island](#). [Beazley](#) was the first to identify the island as the [ancient Thasos](#), which was the [ancient name of the island](#).