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Carbon Nanotubes (CNT), discovered in 1991, have amazing mechanical, thermal and electrical conductivity, as well as excellent field emission properties. Actual uses of CNT are already about to be numerous (car industry, sport accessories, etc.), and future applications are foreseen to be in constant development. Right now, the very same properties that make CNT very attractive raise questions about their potential toxicity, possible long-term secondary effects, and/or biodegradability. Physico-chemical properties of CNT seem to be critical not only for their potential applications, but also for their biological and toxicological effects. However, a comprehensive and systematic understanding of this subject still needs to be acquired, particularly when considering the very promising biomedical applications of CNT.

The general aim of this conference is, thanks to its pluridisciplinary approach, to give the different actors of CNT research (physicists, chemists, biologists) the proper level of knowledge required to discuss with the other participants and understand each other correctly. Therefore, the conference will propose lectures accessible to scientists of different fields, as well as more specialized lectures in each domain of interest, including the most recent advances on the subject. Particular attention will be given to accessibility and exchange of competences between the disciplines. Specifically, the programme of this conference focuses on four general topics that are considered by the scientific committee as major axes of CNT research:

- 1) Synthesis/characterization of CNT
- 2) CNT chemistry
- 3) Biomedicine
- 4) Biological and environmental effects of CNT

RESEARCH CONFERENCES

ESF Conference

Nanocarbons: From Physicochemical and Biological Properties to Biomedical and Environmental Effects

Hotel Villa del Mare, Acquafredda di Maratea • Italy
8-13 September 2009



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Chair: Sophie Lanone, INSERM University Paris 12, FR

Co-Chairs: Jorge Boczkowski - INSERM University Paris 12, FR;

Philippe Lambin - University of Namur, BE; & **Pascale Launois**, CNRS-University Paris 11, FR

Invited Speakers will include

Synthesis and Characterization of Nanotubes

M.H. Gass - SuperSTEM, UK
Nicole Grobert - Oxford U., UK
Esko Kauppinen - TKK Helsinki, FI
Wolfgang Maser - CSIC, ES
Martine Mayne-L'Hermite - CEA, FR
CNT Chemistry
Alberto Bianco - CNRS Strasbourg, FR
Eric Doris - CEA, FR
Diego Mantovani - Laval U., CA
Wim Wenseleers - Antwerp U., BE

Biomedicine

Kostas Kostarelos - London U., UK
Amanda Schrand - Dayton U., US
Biological and Environmental Effects of CNT
Steve Klaine - Clemson U., US
Dominique Lison - UCL Louvain, BE
Jérôme Rose - CNRS, FR
Lang Tran - IOM, UK
Tian Xia - UCLA, US

Application Form & Programme available from

www.esf.org/conferences/09291

Closing Date for Application 14 June 2009

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