



## 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

**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

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# Final Programme

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## Tuesday, 8 September

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Late afternoon / early evening	Registration at the ESF desk
19.00	Welcome Drink
20.00	Dinner

## Wednesday, 9 September

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### Conference Opening

08.30-09.00	<b>Sophie Lanone</b> INSERM University Paris 12, FR
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### Session 1

**Chairs: Pascale Launois**, CNRS-University Paris 11, FR and **Sophie Lanone**, INSERM University Paris 12, FR

09.00-10.00	<b>Nicole Grobert</b> University of Oxford, UK <i>Structure of nanotubes and related materials</i>
10.00-11.00	<b>Dominique Lison</b> Catholic University of Louvain, BE <i>Toxicity on the scale of the organism</i>
11.00-11.30	Coffee break
11.30-12.30	<b>Steve Klaine</b> Clemson University, US <i>Ecotoxicity: introduction and methods</i>
12.30-14.00	Lunch

### Session 2

**Chairs: Pascale Launois**, CNRS-University Paris 11, FR and **Sophie Lanone**, INSERM University Paris 12, FR

14.00-15.00	<b>Martine Mayne-L'Hermitte</b> CEA-Saclay, FR <i>Synthesis and growth of carbon nanotubes by chemical vapour deposition</i>
15.00-16.00	<b>Eric Doris</b> CEA, FR <i>Chemical functionalization of carbon nanotubes</i>
16.00-16.30	Coffee break
16.30-17.30	<b>Kostas Kostarelos</b> University of London, UK <i>Carbon nanotubes as probes for imaging in biological tissue</i>
17.30-17.45	<b>Perine Landois</b> CEA, FR <i>Ecotoxicological effects of carbon nanotubes in amphibian larvae : (geno)toxicity evaluation according standardized assays</i>

*(short talk)*

- 17.45-18.00 **Sara Cipollone**  
University of Trieste  
*Surface Functionalization with CNT for the recording of Neuronal Activity*  
*(short talk)*
- 18.00-19.00 Discussion
- 20.00 Dinner
- 21.30 Poster Session

### Thursday, 10 September

#### Session 3

**Chairs: Philippe Lambin** - University of Namur, BE and **Jorge Boczkowski** - INSERM University Paris 12, FR

- 09.00-10.00 **Enrico Bergamaschi**  
University of Parma, IT  
*Toxicity at the level of a cell*
- 10.00-11.00 **Esko Kauppinen**  
Helsinki University of Technology, FI  
*Characterisation of carbon nanotubes with microscopic and optical methods*
- 11.00-11.30 Coffee break
- 11.30-12.30 **Alberto Bianco**  
CNRS, FR  
*Functionalization of carbon nanotubes for bio-medical applications*
- 12.30-14.00 Lunch
- 14.00-18.00 Excursion

#### Session 4

**Chairs: Philippe Lambin** - University of Namur, BE and **Jorge Boczkowski** - INSERM University Paris 12, FR

- 18.00-19.00 **Diego Mantovani**  
Laval University, CA  
*CNTs devices for replacement and regeneration of tissue and organs*
- 20.00 Dinner

### Friday, 11 September

#### Session 5

**Chairs: Philippe Lambin** - University of Namur, BE and **Sophie Lanone**, INSERM University Paris 12, FR

- 09.00-10.00 **Jérôme Rose**  
CNRS, FR  
*Ecotoxicity of nanoparticles*
- 10.00-11.00 **Alberto Bianco**  
CNRS, FR  
*Using nanotubes as therapeutic tools*
- 11.00-11.30 Coffee break
- 11.30-12.30 **Mhairi Gass**

University of Liverpool, SuperSTEM, UK  
*Observation of nanotubes in the biological environment*

12.30-14.00 Lunch

## Session 6

**Chairs: Philippe Lambin** - University of Namur, BE and **Sophie Lanone**, INSERM University Paris 12, FR

14.00-15.00 **Dominique Lison**

Catholic University of Louvain, BE  
*Toxicity of nanotubes*

15.00-16.00 **Wim Wenseleers**

Technion Israel Institute of Technology, IL  
*Cells in gels: Exploring cellular morphogenesis and differentiation in 3-D culture*

16.00-16.30 Coffee break

16.30-17.30 **Tian Xia**

University of California, US  
*Toxicity of metallic nanoparticles*

17.30-17.45 **Adriele Prina-Mello**

Trinity College Dublin, IE  
*Investigation of functionalised SWNTs toxicity and biocompatibility by multiparametric high content screening analysis (short talk)*

17.45-18.00 **Philip Collins**

University of California, US  
*Point defects in nanotube sidewalls and their physiochemical effects (short talk)*

18.00-19.00 Discussion

20.00 Dinner

## Saturday, 12 September

## Session 7

**Chairs: Pascale Launois**, CNRS-University Paris 11, FR and **Jorge Boczkowski** - INSERM University Paris 12, FR

09.00-10.00 **Diego Mantovani**

Laval University, CA  
*Materials for medical applications: focus on CNs*

10.00-11.00 **Steve Klaine**

Clemson University, US  
*Ecotoxicity of nanotubes*

11.00-11.30 Coffee break

11.30-12.30 **Amanda Schrand**

University of Dayton, US  
*Medical applications of nanodiamonds*

12.30-14.00 Lunch

## Session 8

**Chairs: Pascale Launois**, CNRS-University Paris 11, FR and **Jorge Boczkowski** - INSERM University Paris 12, FR

14.00-15.00	<b>Jérôme Rose</b> CNRS, FR <i>Life cycle of nanoparticles</i>
15.00-16.00	<b>Wolfgang Maser</b> Instituto de Carboquímica (CSIC), ES <i>Present and prospective applications of nanotubes</i>
16.00-16.30	Coffee break
16.30-17.30	Discussion
17.30-17.45	<b>Julia Varet</b> IOM, UK <i>In vitro techniques to assess the toxicity of carbon nanomaterials (short talk)</i>
17.45-19.00	Forward Look Plenary Discussion
19.30	Get-together & Conference Dinner

### **Sunday, 13 September**

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08.00 Breakfast & Departure

### **Abstracts, Posters & Short Oral Presentations**

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There will be no short talks other than those listed on the final programme. All other abstracts have been accepted as posters. The list of accepted posters can be found at [www.esf.org/conferences/09291](http://www.esf.org/conferences/09291)

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