

Scientific Committee

2009, November 19th-20th

Salle du Conseil de l'Ecole PHELMA - MINATEC

November 19th

- 1:30 pm – 1:40 pm:** **Welcome address**
Jean-Paul DURAUD, President of the Nanosciences foundation
- 1:40 pm – 2:25 pm:** **Report on the activity of the Foundation**, and discussion
Roland HERINO, Director of the Foundation
- 2:25 pm – 2:45 pm:** **The network of technological facilities**, and discussion
Noël MAGNEA, member of the Steering Committee
Working group “Technological Platforms”
- 2:45 pm – 3:05 pm:** **Break**
- 3:05 pm – 3:25 pm:** **Nanophotonics**, and discussion
Jean-Michel GERARD, member of the Steering Committee
Working group “Nanophotonics”
- 3:25 pm – 3:45 pm:** **Life sciences in the RTRA**, and discussion
Franz BRUCKERT, member of the Steering Committee
Working group “Life sciences at the frontier of nanoelectronics”
- 3:45 pm – 4:00 pm:** **The role of the Foundation in education and scientific animation**
Hervé COURTOIS, member of the Steering Committee
Working group “Education and scientific animation”
- 4:00 pm – 4:40 pm:** **Open discussion**
- 4:40 pm – 5:00 pm:** **Short break and move to the first floor theater.**
- 5:00 pm – 7:30 pm:** **Nanosciences Foundation Thesis Prize Award Ceremony**
Talks given by 3 scientists of the Foundation, recently awarded by the European Research Council:
- 5:00 - Molecular spintronics using single-molecule magnets,
by Wolfgang WERNSDORFER, Senior "ERC Advanced Grant"
 - 5:15 - Spintronics phenomena and their implementation in functional devices
by Bernard DIENY, Senior "ERC Advanced Grant"
 - 5:30 - Nanowires for multiphysics devices and circuits,
by Thomas ERNST, ERC Starting Grant"
 - 5:45 Introduction of François VARCHON by Laurence MAGAUD
 - 5:50 - Electronic and structural properties of graphene on silicon carbide
Presentation of his thesis by François VARCHON
 - **6:10 - Cocktail**

November 20th

- 8:30 am – 8:50 am: Research on graphene in the RTRA**
Pierre MALLET, CNRS researcher, Institut Néel
- 8:50 am – 9:10 am: Multi scale design of nanomaterials with simulations on hybrid architectures**
Pascal POCHET, CEA researcher (CEA/SP2M)
- 9:10 am – 9:30 am: New concepts solar cells with II-VI semiconductor nanostructures**
Céline TERNON, Maître de Conférences Grenoble INP
- 9:30 am – 9:50 am: Break**
- 9:50 am – 10:10 am: Generation of electrochemical energy from biomimetic systems**
Don MARTIN, Chaire d'excellence
Laboratoire Techniques de l'Imagerie, de la Modélisation et de la Cognition
- 10:10 am – 10:30 am: Brain-computer interface: self learning adaptive embedded solution**
Tetiana AKSENOVA – Chaire d'excellence,
CEA-LETI, CLIMATEC
- 10:30 am – 12:00 am: Scientific Committee restricted meeting**
- 12:00am- 12:30am: Conclusions of the Scientific Committee**
Benoit DEVEAUD-PLEDRAN, President of the Scientific Committee