

## Scope of the School-Seminar

Carbon nanostructures such as graphene, carbon nanotubes and fullerenes have stimulated remarkable experimental and theoretical developments in nanotechnology over the last years. The unique structure and the outstanding chemical, mechanical, electrical, thermal, optical properties of each nanocarbon modification generate large expectations about their applications with regard to nanoelectronics, photonics, optoelectronics and nanomedicine. Indeed, the carbon nanotubes offered the first examples of single molecule optoelectronics that represent, at the moment, the ultimate frontier of nanotechnology. More recently, graphene has retained the attention through unusual and promising electronic properties, and this material is expected to be easily inserted into devices

The new developments and understandings of the physical nature of carbon nanomaterials will be the topic of this Seminar. It will bring together the French and Ukrainian scientists in the fields of fundamental physics (experimental and theoretical), chemistry, material science to discuss the advancement related to science and technology of nanocarbons and to push forward the field.

### **The Seminar is expected to cover recent progress in the nanocarbon materials:**

- 1 Synthesis and preparation methods
- 2 Characterization methods
- 3 Theoretical studies and modelling
- 4 Electronic and thermal transport
- 5 Magnetotransport
- 6 Carbon nanocomposites

### **Registration and submission of abstracts:**

Applicants have to send to the Organizing Committee the application form written according to the rules indicated below, annotation text and abstract of their reports.

#### **Application should contain:**

- full title of report ;
- names and affiliations of authors;
- number of the conference section;
- type of the contribution (lecture, oral or poster)
- postal address, phones, FAX, e-mail.

#### **Rules for submission of abstracts**

1. Abstract in English should be prepared as a single A4 page (including figures, tables, references etc).
2. Abstracts should be typed in Microsoft Word (Office 97/2000 format). The title is typed at the top of the page, using single-spaced Times New Roman 14 pt font. All margins should be 1 inch.
3. The title is typed at the top of the page, using capital letters without hyphenation. Leave two blank lines before author's names, their addresses and affiliations. Leave two blank lines and then type the text of the Abstract.
4. Formula and figures should be inserted in the text.
5. References should be given in the report body (for example, [1]) and their list should be typed leaving two blank lines after the body of the abstract.

Please submit the abstracts as attachment to the Secretary of Organizing Committee by e-mail: **vovch@univ.kiev.ua**

*The official language of the Seminar is English.*

### **Deadlines:**

- Submission of application form: June 30<sup>th</sup>, 2009
- Submission of abstract: August 1<sup>st</sup>, 2009
- Notification of acceptance for poster presentation: August 1<sup>th</sup>, 2009
- Conference: September, 14<sup>th</sup> - 17<sup>th</sup>, 2009

### **Conference site and accommodation**

The conference will be held in the Conference Hall of **Kyiv National Taras Shevchenko University campus** in Beregove, Crimea, Ukraine from September 14<sup>th</sup> until 17<sup>th</sup> September, 2009.

Participants will be accommodated in the campus hotel.

Participants, arriving in Simferopol International Airport or railway station will be transported to the Conference site. Please, inform the Organizing Committee on the number of attendants and the time of arrival.

**Registration Fee:**

Regular participant	120Eu
Student	60Eu
Accompanying person	60Eu
Participant (Ukraine or CIS).....	200Gr
Student (Ukraine or CIS)	80Gr
Accompanying person (Ukraine or CIS)	100 Gr

The registration fee includes access to the scientific sessions, printed congress materials, coffee and refreshment during the breaks conference dinner and transportation from Airport or railway station to the hotel.

**Registration fee should be paid upon arrival.**

**Symposium organizers****Chairpersons:**

**L. Matzui** - Kyiv National Taras Shevchenko University (Ukraine), [matzui@univ.kiev.ua](mailto:matzui@univ.kiev.ua)

**F. Le Normand** - Institut de Physique et Chimie des Matériaux (France),  
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**Scientific Seminar Committee**

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**M. Kulish** - Kyiv National Taras Shevchenko University (Ukraine)

**V. Tatarenko** – G.V. Kurdyumov Institute for Metal Physics NAS of Ukraine (Ukraine)

**T. Wade** - Ecole Polytechnique Laboratoire des solides irradiés, CNRS-UMR (France)

**Organizing committee**

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**I. Ovsienko**-- Kyiv National Taras Shevchenko University (Ukraine), [ovsienko@univ.kiev.ua](mailto:ovsienko@univ.kiev.ua)

**I. Pundyk**- Kyiv National Taras Shevchenko University (Ukraine), [pundyk@univ.kiev.ua](mailto:pundyk@univ.kiev.ua)

**Sponsors:**

- Kyiv National Taras Shevchenko University
- Ministry of Education and Science of Ukraine
- Science and Technology Center in Ukraine (STCU)
- ARCUS “Alsace –Russia/Ukraine” program on Supramolecular Chemistry

**Invited Talks**

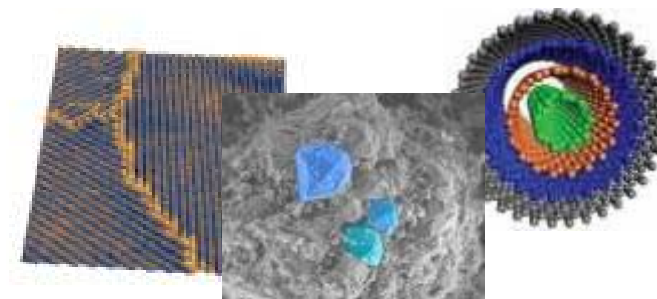
- Cécilia MENARD (Strasbourg) Fonctionnalization of carbon nanotubes
- Yuri PRILUTSKYY (Kiev) Multiwall Carbon nanotubes for oncotherapy
- Yannick DAPPE (Strasbourg) DFT Simulation of nanocarbon materials
- Ludmila MATZUY Magneto-transport in nanocarbon materials
- Mykola KULISH (Kiev) Optical properties of fullerene films
- Julio RODRIGUEZ-MANZO (Strasbourg) Atomic characterization of carbon nanomaterials
- Victor GURBANOV (Kiev) Raman studies of nanocarbon materials
- Alexandr OBRAZTSOV (Moscow)
- Elena OBRAZTSOVA (Moscow)
- Eduard SHPILEVSKY (Minsk) Fullerene-based nanocomposites
- Olga MATYSHEVSKA (Kiev) Bioactivity of fullerene nanocomposites
- Francois LE NORMAND (Strasbourg) Carbon nanotubes and graphene preparation
- Uwe RITTER (to be confirmed)
- Leonas VALKUNAS (to be confirmed)
- Eric WEGROWE (to be confirmed)
- Hélène DUMORTIER (Strasbourg) Toxicology of carbon nanotubes
- Izabella JANOWSKA (LMCM, Strasbourg) (to be confirmed)



# 1<sup>st</sup> Ukrainian-French

## School

# “Carbon Nanomaterials: Structure and Properties”



Beregove, Crimea, Ukraine  
14<sup>th</sup> - 16<sup>th</sup> September, 2009



Announcement – Call for Abstracts