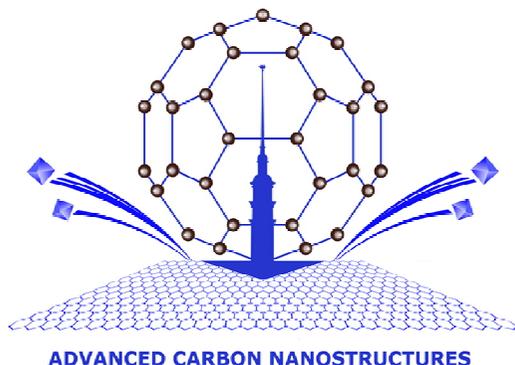


First Announcement

**12th Biennial
International Conference**

**ADVANCED CARBON
NANOSTRUCTURES**

(ACNS'2015)



June 29 – July 3, 2015
St. Petersburg, Russia

Abstract deadline – 15 March, 2015

ORGANIZERS

Ioffe Physico-Technical Institute, Russia

*St. Petersburg Nuclear Physics Institute,
Russia*

*National Research Center "Kurchatov
Institute", Russia*

*St. Petersburg State Institute of Technology
(Technical University) Russia*

SCOPE

The program will traditionally include lectures by invited speakers, oral presentations and several poster sessions. The lectures and oral presentations will generally concentrate on the most recent advances in the following areas:

• **Materials**

- Fullerenes
- Carbon Nanotubes
- Graphene
- Nanodiamond particles
- Carbon onions
- Nanographite
- Nanoporous carbon

• **Phenomena**

- Synthesis
- Electronic properties
- Magnetic properties
- Optical properties
- Mechanical properties
- Phase transitions

And

- Technology of all materials mentioned above
- Theory and computer simulation of carbon nanostructures
- Methods for characterization of nanocarbons
- Applications of carbon nanostructures

PRELIMINARY LIST OF INVITED SPEAKERS

1. **Jean-Charles Arnault**, CEA LIST, France
Hydrogenated nanodiamond: a versatile tool for biomedical applications
2. **Franco Cataldo**, Osservatorio Astrofisico di Catania, Italy
3. **Luis Echegoyen**, University of Texas at El Paso, USA
Buckyball Maracas: the importance of size, shape and electronic complementarity between the encapsulated clusters and the carbon cages of endohedral fullerenes
4. **Dominik Eder**, Institut für Physikalische Chemie, Germany
Nanocarbon-inorganic hybrids for sustainable energy applications
5. **Yuhei Hayamizu**, Tokyo Institute of Technology, Japan
6. **Anatoli Krestinin**, Institute of Problems of Chemical Physics, Russia
7. **Vasily Lebedev**, National Research Centre "Kurchatov Institute", B.P.Konstantinov Petersburg Nuclear Physics Institute, Russia
Biocompatible water-soluble endometallofullerenes: peculiarities of self-assembly in aqueous solutions and the ordering under magnetic field applied
8. **Levon Piotrovskiy**, Institute of Experimental Medicine, Russia
9. **Victor Ral'chenko**, Prokhorov General Physics Institute, Russia
Nano- and microcrystalline diamond films and structures for photonics grown by a microwave plasma chemical vapor deposition
10. **Ping Sheng**, HKUST, Hong Kong, China
11. **Shangfeng Yang**, University of Science and Technology of China, China
Endohedral and exohedral functionalization of Fullerenes

Organizing Committee of ACNS'2015

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INFORMATION

The International conference "Advanced Carbon Nanostructures 2015" (ACNS'2015) continues the series of the joined conferences that started in 2011 when the 10th Biennial International Workshops "Fullerenes and Atomic Clusters" and the 4th International Symposiums "Detonation Nanodiamonds: Technology, Properties and Applications" were unified into single event "Advanced Carbon Nanostructures 2011" (ACN'2011).

The scope of the conference includes new carbon nanostructures, members of nanocarbon family - fullerenes, carbon nanotubes, graphene, carbide derived carbon, onions, nanographite and nanodiamonds.

ACNS'2015 is the international forum for the exchange of information on the latest progress in carbon nanostructures. The scientific program consists of both oral and poster presentations as well as lectures by invited keynote speakers who survey areas of major interest.

General topics include synthesis and technology, physical properties, chemistry of carbon nanostructures as well as their main applications for industry, biology and medicine.

Progress in modern nanotechnologies requires development of new, and refinement of already available methods of diagnostics. This is why we also arrange the conference school for young scientists "Advanced carbon nanostructures and methods of their diagnostics" which will be held in the course of the ACNS'2015.

St Petersburg is both a scientific and a cultural center. It is a beautiful city designed and built by Russian and Western architects. It is often called "the Venice of the North". As usual along with the Scientific Session, a Social Program is planned.

The Organizers are pleased to welcome members of the world nanocarbon community to St Petersburg during the beautiful time of white nights.

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