

GRAFENIKA [GRAPHENICS] RUSSIAN GUBIN'S SEMINAR (MOSCOW)

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Russian Seminar "GRAPHENE: MOLECULE AND CRYSTAL (material, physics, chemistry, electronics, photonics, biomedical applications)" under the direction of prof. SP Gubin operates from November 2011. Seminar sessions are held once a month, mainly in the boardroom VNIIAlmaz in Gilyarovskogo str., 65 (metro station "Rizhskaya"). The seminar is supported by LLC "AkKoLab" and the VNIIAlmaz. Programms of seminars are available at <http://www.akkolab.ru>.

The seminar organizers see it as a discussion platform to discuss new ideas and concepts, review the results and the exchange of experience of researchers in the booming grafenika - an interdisciplinary field of modern science. Anticipated publication of an annual compendium of seminar materials, creating Programs of research in this area with possible access to financing. The seminar was attended by officials from various scientific institutions of Moscow - Kurnakov Institute of General and Inorganic Chemistry RAS, Nesmeyanov Institute of Organoelement Compounds of RAS, Semenov Institute of Chemical Physics RAS, Kotel'nikov Institute of Radio Engineering and Electronics RAS, National Research Centre "Kurchatov Institute", Moscow State University Department of Chemistry, Moscow Institute of Physics and Technology, National Research Nuclear University "MEPhI", People's Friendship University of Russia, LLC "AkKoLab", Open Joint Stock Company (JSC) "VNII ALMAZ", LLC "Karbonlayt", JSC NIIGraft and others, as well as invited members of scientific institutions in Russia, Commonwealth of Independent States (CIS) and foreign countries. The audience for each session - about fifty participants. In the four- hour meeting with a break heard and discussed the 3-4 reports, news review and submitted poster presentations. The journal RENSIT is published semi-annual reports of this seminar: list of reports indicating affiliated authors and submitted abstracts.

Keywords: nanometer level combined probe and optical techniques, graphite oxide, thermal decomposition, gaseous products, carbon chains, ballistic electron transport, spin-orbit coupling, resistive switching, tin and antimony sulfides, reduced graphene oxide, sodium-ion batteries

PACS: 01.10 Fv

Received 28.11.2014

RENSIT, 2014, 6(2):236-237

DOI: 10.17725/RENSITe.0006.201412i.0236

NINETEENTH SEMINAR, 09.10.2014

1. **Golberg DV** (DrSci Phys&Math, prof., NIMS (Japan), MIS&S).

Studies of graphene at the nanometer level combined probe and optical techniques.

2. **Kryazhev YuG** (DrSci Chem, prof), Trenikhin MV, Likholobov VA (DrSci Chem, prof, Member-corr RAS, IHCP RAS).

The composition of the gaseous products of thermal decomposition of the graphite oxide. Due to the structure.

TWENTYFIFTH SEMINAR, 27.11.14

1. **D'yachkov PN** (Dr Sci.Chem), Zaluev VA (Kurnakov IGIC RAS)

Simulation of ballistic electron transport and spin-orbit coupling in carbon chains.

2. **Kapitonova OO** (Grad. student, Lomonosov MSU, Chem Faculti).

Formation of nanostructures based on graphene oxide with resistive switching.

TWENTY-FIRST SEMINAR, 25.12.2014

1. **Prihodchenko PV** (Dr Sci Chem., Kurnakov IGIC RAS).

Composite materials based on tin and antimony sulfides and reduced graphene oxide - promising anode materials for sodium-ion batteries.

2. **Gubin SP** (Dr Sci Chem., Kurnakov IGIC RAS).

Summing up "graphene" year: achievements, programs, projects, conferences etc.