

# **RuMex-2013**

**3-rd Russian-Mexican workshop on  
Nanoparticles, Nanomaterials and  
Nanoprocessing**

**October 14-17, 2013, Saint Petersburg, Russia**

**<http://nmr.phys.spbu.ru/rumex>**

## **Workshop program**

## **Monday, October 14**

10:00 **Registration**

11:00 **Opening**

11:20 D. Galvan (Invited lecture)  
*1H-MoS<sub>2</sub> nanoparticles grown on graphene and 1H-BN mono layers*

12:00 **Coffee break**

12:20 A. Simakov (Invited lecture)  
*Selective oxidation of renewable wood compounds over supported gold catalysts*

13:00 B. Acosta (Oral)  
*Highly Stable Au-Pd@Oxide Nanoreactors in the Reduction of 4-Nitrophenol*

13:20 V. Evangelista (Oral)  
*Gold based nanoreactors decorated with ceria*

13:40 K. Klyukin (Oral)  
*First-principles calculations of site occupation and hydrogen migration in magnesium*

14:00 **Lunch**

15:20 M. Hernandez (Invited lecture)  
*External area assessment in hybrid materials with cellular regeneration properties*

16:00 E. Serova (Oral)  
*Saint Petersburg State University: Academic mobility in science*

16:20 **Poster session & Coffee**

19:00 **Welcome reception**

## Tuesday, October 15

- 10:20 V. Petranovskii (Invited lecture)  
*Synthesis of nanoparticles templated by zeolite matrices:  
Advantages and disadvantages*
- 11:00 C. López-Bastidas (Invited lecture)  
*Plasmons in Metal Nanoparticles on Zeolite Template*
- 11:40 O. Jaime-Acuña (Oral)  
*Atomic and electronic structure of  $Cd_xZn_yS$  nanoparticles  
supported on mordenite-type zeolite*
- 12:00 **Coffee break**
- 12:20 I. Zvereva (Invited lecture)  
*Development of thermal analysis for the investigation of  
nanostructural layered materials*
- 13:00 I. Rodionov (Oral)  
*Photocatalytic properties of perovskite-type layered oxides*
- 13:20 P. Tolstoy (Oral)  
*Introduction to center for magnetic resonance at St Petersburg  
State University*
- 13:40 A. Gurinov (Oral)  
*NMR study of Lewis and Brønsted acidic centers of aluminated  
SBA-15 Silicas*
- 14:00 **Lunch**
- 15:20 E. Kurenkova (Oral)  
*NQR/NMR studies in zero-field at Center for Magnetic  
Resonance*
- 15:40 A. Shmyreva (Oral)  
*Investigation of metal nanoparticles by the example of Co-59  
NMR technic*

- 16:00 E. Charnaya (Invited lecture)  
*NMR studies of nanostructured sodium and sodium-potassium alloy*
- 16:40 **Coffee break**
- 17:00 Optional visit and guided tour to CMR
- 19:00 **Conference Dinner**

### **Wednesday, October 16**

- 9:30 **Excursions to the Hermitage, Peter & Paul Fortress, walk trip on the city**
- 19:00 **Concert at Jazz Philharmonic Hall**

### **Thursday, October 17**

- 10:20 Round table on further perspectives of Russian-Mexican cooperation
- 12:00 Optional visit and guided tour to departments of physics and chemistry faculties
- 14:00 **Lunch**

# Social program

The Organizing Committee of the RuMex-2013 welcomes you cordially in Saint Petersburg. We hope you will enjoy your staying in the city and participation in the Workshop both scientifically and socially.

## Monday, October 14

### 19:00 — Welcome reception

The reception will take place in the *Blue Hall* of the Institute of Physics

## Tuesday, October 15

### 19:00 — Conference dinner

The dinner will take place in the restaurant «Krapiva» («The Nettle») situated on the territory of «Shuvalovka». Its specialty is dishes of author and national cuisine. The Russian village «Shuvalovka», located near Petergof, is a unique complex of buildings, made in the traditions of Russian wooden architecture of the XVIII and XIX centuries. The guests may enjoy not only traditional Russian cuisine but also visit the smithy and pottery studio, ethnographic hut, reconstituted from drawings Novgorod peasant's house of the XIX century, the mill and the Chapel Nativity of the Blessed Virgin.

## Wednesday, October 16

### 9:30 - 17:00 — Excursions

We propose the participants to enjoy the walk & bus trip on the city and to discover the most famous attractions of Saint Petersburg: *Saint Isaac's Cathedral, Bronze Horseman, Rostral Columns, Saints Paul and Peter fortress* etc. ... and of cause to visit one of the most famous museums in the word the *Hermitage*.

### **19:00 – 22:00 — Concert in Jazz Philharmonic Hall**

St. Petersburg State Jazz Philharmonic Hall was founded in 1989 by the outstanding jazz musician and composer, David Goloschokin. Since its opening Jazz Philharmonic Hall has hosted performances of such legendary jazzmen as David Baker, Richie Cole, Eddie Gomez, Herb Heller, Benny Golson, Monty Alexander, Wynton Marsalis and many others.

Wednesday, October 16, the Workshop participants may enjoy by “*Parade of the jazz guitarists*” (Gasán Bagirov, Andrey Ryabov, Ildar Kazahanov, Michael Edelstein and David Goloschekin).

Seating is arranged in tables, 2-6 people per table. There is also a dance floor. During the concert you can order refreshments, desserts, alcohol and non-alcohol beverages, light snacks.