

**Solar Extreme Events of 2003:  
Fundamental Science and Applied Aspects  
(SEE)  
International Symposium  
Moscow, Russia  
12-14 July, 2004**

**Second circular**

**Date and Location:**

12-14, July 2004  
Moscow State University, Moscow, Russia

**Address:**

- Moscow State University, Leninskie Gori, Moscow, 119992, Russia
- **www:** <http://see.magnetosphere.ru>
- **Phone:** 7 095 939 18 18
- **Fax :** 7 095 939 08 96
- **E-mail:** [see@see.magnetosphere.ru](mailto:see@see.magnetosphere.ru)

**Sponsoring Organisations**

- Russian Ministry of Sciences and Education
- Russian Academy of Sciences
- Federal Space Agency
- Moscow State University
- SCOSTEP
- COSPAR
- National Science Foundation (USA)
- National Aeronautics and Space Administration (USA)

**Deadlines:**

- For abstracts: May 1, 2004 (*changed!*)
- For visas: May 9, 2004 (*changed!*)
- For registration: June 1, 2004

**Venue**

Moscow State University, the Main Building

## International Advisory Committee

- Dr. D. Baker, University of Colorado, USA (Co-convenor)
- Prof. M. Panasyuk, Moscow State University, Russia (Co-convenor)
  
- Prof. S. Avdyushin, Institute of Applied Geophysics, Russia
- Dr. D. Boscher, ONERA, France
- Dr. V. Bothmer, Max-Planck Institute, Lindau, Germany
- Dr. N. Crosby, BIRA, Belgium
- Dr. I. Daglis, NOA, Greece
- Dr. T. Fritz, Boston University, USA
- Dr. M. Geller, State University of New York at Stony Brook, USA
- Dr. T. Goka, Japan Aerospace Exploration Agency, Japan
- Dr. R. Horne, BAS, Great Britain
- Prof. S. Kuznetsov, Moscow State University, Russia
- Prof. L. Lazutin, Moscow State University, Russia
- Dr. V. Obridko, IZMIRAN, Russia
- Dr. G. Reeves, Los Alamos National Laboratory, USA
- Prof. I. Veselovsky, Moscow State University, Russia
- Prof. F. Wei, Centre for Space Physics, China
- Prof. L. Zelenyi, IKI, Russia

## Local Organizing Committee

- Prof. M. Panasyuk – chairman, [panasyuk@sinp.msu.ru](mailto:panasyuk@sinp.msu.ru)
- Prof. I. Veselovsky - deputy chairman, [veselov@dec1.sinp.msu.ru](mailto:veselov@dec1.sinp.msu.ru)
- Dr. V. Kalegaev - deputy chairman, [klg@dec1.sinp.msu.ru](mailto:klg@dec1.sinp.msu.ru)
  
- Mrs. M. Blokhina
- Dr. S. Bobrovnikov
- L. Grigor'eva
- Dr. S. Krasotkin
- Dr. N. Nikolaeva
- Mr. M. Podzolko
- Mrs. M. Ryazantseva
- Mrs. E. Sigaeva
- Dr. S. Svertilov
- Dr. A. Varkovitskaya
- Dr. N. Vlasova
- Mrs. O. Yakovchuk

**Registration :** electronic registration on Web-site <http://see.magnetosphere.ru>

### **Registration Fee:**

- 250 Euro for foreign participants
- The registration fee for Russian participants consists of two parts: 200 roubles, which the participant pays at registration, and contributing payments of the Russian Institutes, which are Symposium Organisers.

**Abstract submission:** electronic submission on Web-site <http://see.magnetosphere.ru>

### **Publications:**

The detailed information will be provided in the 3<sup>rd</sup> circular.

### **Hotels & Accommodation**

We can recommend several hotels with various price levels:

- **Universitetskaya Hotel \*\*:**
  - single room - 25 \$
  - double room - 35 \$
- **Soyuz Hotel \*\*\*:**
  - single room - 48\$
  - double room - 62\$
- **Central Tourist House Hotel \*\*\*:**
  - single room - 39 \$
  - double room - 53 \$
- **Radisson Slavyanskaya Hotel \*\*\*\*\*:**
  - single room - 210 \$
  - double room - 250 \$

To book the room in a hotel, please register and send to Mrs. Victoria Sheveleva by E-mail (vsheve@mail.ru) the filled Accomodation Form (see Appendix 1). You can find it also on the Web-site <http://see.magnetosphere.ru>.

### **Visas**

To obtain invitation for a visa, please (1) register, (2) fill in Application Form (Appendix 2) and (3) send it to local organizing committee by FAX +7 (095)939 0896. Also, attach (4) copy of your passport. Application Form is also available on the Web-site <http://see.magnetosphere.ru>.

If the nationality and the country you live in are not the same, you have to send also the (5) copy of residence permit.

The invitation letter with the information about Russian embassy in your country were you can get the visa will be send to the address of your place of work.

## **Scientific Rationale**

Two years ago, solar cycle 23 entered its declining phase, following its maximum in 2000-2001. Nevertheless, the solar atmosphere and solar magnetic field exhibited numerous extremely strong energy releases in October and November 2003, with powerful solar flares and majestic coronal mass ejections. As a result of this rather unexpected solar activity enhancement, the heliospheric plasma, electromagnetic fields and energetic particle populations as well as cosmic rays were strongly perturbed. Many travelling shock waves, magnetic flux ropes and sporadic high speed solar wind streams were observed. The terrestrial magnetosphere responded to these perturbations with strong magnetic storms, broad aurora, radiation belt, and ionosphere variations. Moreover, significant upper atmosphere and ground disturbances were recorded.

The famous October and November 2003 events attracted the attention of scientists, engineers and the public worldwide. These events offer new scientific insights to help us better understand how our world and the surrounding space environment are connected. They are also of special interest because of their impacts on both technological and biological systems.

The extreme solar-terrestrial events of October and November 2003 were recorded by many ground-based and space-borne instruments. We propose to present and discuss observations made by SOHO, Cluster, CORONAS-F and "METEOR" spacecraft, the International Space Station, several geo-stationary satellites, as well as ground observatories located world-wide and especially in Russia.

The aim of the Symposium is twofold:

- 1.) to have a forum for discussing the recent October and November 2003 solar extreme events in context of the coupled solar-terrestrial system both from a scientific and a technological point of view,
- 2.) to create opportunities for new scientific contacts and collaborations.

The following topics will be covered at the Symposium:

1. Sun, heliosphere and solar wind properties/dynamics during the extreme events
2. Magnetospheric response to the solar extreme events in 2003
3. Space weather applications.

The dates of the Symposium are particularly suitable for the participants of the COSPAR Assembly. You are welcome!

## **Scientific program**

We propose 4 lectures (overall retrospective, Sun and heliosphere, magnetosphere, space weather) before every morning sessions. 3 scientific sessions devoted to heliosphere, magnetosphere and space weather will be organized.

Detailed information is on the Web-site.

## **Social Programme**

Monday, July 12: Boat- excursion and Icebreaker

Tuesday, July 13: Conference dinner

*(More information will be provided in the 3<sup>rd</sup> circular)*

## APPENDIX 1

### Accommodation Form

Last name \_\_\_\_\_

First name \_\_\_\_\_

Country \_\_\_\_\_

Please choose with the symbol  V

#### **Hotel:**

1. **Universitetskaya** \_\_\_\_\_

2. **Soyuz** \_\_\_\_\_

3. **Central Tourist House** \_\_\_\_\_

4. **Radisson Slavyanskaya** \_\_\_\_\_

#### **Room:**

1. **single room** \_\_\_\_\_

2. **double room** \_\_\_\_\_

#### **Accommodation:**

1. **standard** \_\_\_\_\_

2. **Junior Suite** \_\_\_\_\_

3. **Suite** \_\_\_\_\_

4. **2-Room Suite** \_\_\_\_\_

## Application Form for Invitation:

Given names (first name)	
Surname (last name)	
Sex	
Passport No.	
Date of issue	
Date of expiry	
Authority	
Nationality	
Date of birth	
State and Place of birth	
State and Place of inhabitancy	
Place of employment (full name)	
Full address of place of employment	
Post (work status)	
Phone/Fax	