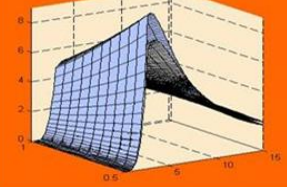


SEE 2007: Fundamental Science and Applied Aspects

Athens, September 2007



**Solar Extreme Events of 2007:
Fundamental Science and Applied Aspects
24 – 27 September 2007
International Symposium
Athens, Greece**

The first circular

Date and Location

24 – 27 September, 2007

The SEE 2007 Symposium will be held at:

Titania Hotel

Panepistimiou 52, Athens

106 72, Greece

Tel.: +30 210 332 6000

Fax.: +30 210 330 0700

Website: <http://www.titania.gr/default.asp>

Symposium Website: <http://cosray.phys.uoa.gr/SEE2007/>

Phone: +30 210 727 6890 / +30 210 727 6901

Fax : + 30 210 727 6987

E-mail: SEE2007@phys.uoa.gr ; LOCSEE2007@phys.uoa.gr

Sponsoring Organizations and Individual Sponsors

We are now in the process of negotiations with sponsors, among them are the following:

- National & Kapodistrian University of Athens
- Committee on Space Research (COSPAR)
- European Space Agency (ESA)
- European Office of Aerospace R & D (EOARD)
- Hellenic Ministry of Education
- Hellenic Physicists Association
- National Observatory of Athens

Deadlines:

First Circular: March 15-20, 2007

Deadline for abstracts: May 31, 2007

Deadline for pre-registration: June 30, 2007

Abstract submission: electronic submission at the website mentioned above

Notification of abstracts acceptance: June 30, 2007

Second Circular: July 5, 2007

Committees:

Local Organizing Committee

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A. Belehaki, National Observatory of Athens, Greece

P. Fildisis, Hellenic Physicists Association

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G. Mariatos, National & Kapodistrian University of Athens

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Igor Veselovsky, Moscow State University, Russia
Victor Yanke, IZMIRAN Russian Academy of Science, Russia
Christos Zerefos, National Observatory of Athens, Greece

Registration Fee

- Participants should register until June 30, 2007. The registration fee for the conference participants is 250 Euro. It includes proceedings, welcome cocktail, coffee breaks, lunches (Monday-Thursday) and Gala dinner.
- For students the registration fee is 150 Euro. A recommendation letter by a member of the teaching staff of their home institution is mandatory.
- Companion fee for the social program is fixed to 50 euros/day, and it includes welcome cocktail and lunches (Monday-Thursday).
- The Registration desk will be available in the conference location on September 24, 2007.

Participants

An upper limit of 120 participants is expected to attend this international symposium

Scientific Rationale

The descending phase of the 23rd cycle of solar activity was highlighted by numerous extremely strong energy releases as powerful solar flares and magnificent coronal mass ejections during the events on January 2005, July 2005, August-September 2005 and most recently December 2006, highlighted by powerful solar flares and magnificent coronal mass ejections.

As a result, of this unexpected intense solar activity, various dynamic processes in the Earth vicinity were triggered, causing geomagnetic storms, heating of the upper atmosphere, changes of the electrodynamic properties of the ionosphere, and creation of the geomagnetically induced currents on the Earth surface. All these conditions of Space Weather (SW) change dramatically with Solar Extreme Events (SEE) development, influenced the reliability of space-borne and ground-based technology systems, and endanger human health and life as well. It is of major importance to elaborate reliable methods for monitoring and forecasting of dangerous SW phenomena and to define the mechanisms of the various SW effects.

The extreme solar-terrestrial events on 2005 and 2006 were recorded by many space-borne and ground-based instruments and provided us with rich information to study and better understand the physical reasons and consequence of the powerful solar events.

The aim of this International Symposium is to provide a world forum for the discussion of recent interesting events in the coupled solar-terrestrial system, which attracted the attention of scientists, engineers and the public, as they are important for our better understanding of the World we are living in and the knowledge of the impacts on technological and biological systems. Special attention will be paid to recent extreme phenomena in the 23-rd solar cycle as well as archives. SEE 2007 Symposium aims to create opportunities for new scientific contacts and collaborations. For the first time, in the series of Solar Extreme Events (SEE) Symposiums, with the occasion of the completion of 50 years of Space exploration, an additional topic regarding the International Heliospheric Year (IHY) will be included to Athens SEE Symposium.

The topics that would be covered are:

- *Solar Extreme Events of December 2006*
- *Energetic processes on the Sun during the extreme events, solar events at solar minimum.*
- *The chain of physical processes in the solar-terrestrial system (Sun-Heliosphere-Magnetosphere-Ionosphere-Upper Atmosphere-Ground).*
- *World-wide particle detector networks for space weather research.*
- *Integrated Systems of forecasting and alerting on the dangerous consequences of violent solar storms.*
- *International Heliospheric Year 2007*

All solar, cosmic ray and geo-scientists are invited to participate in the assembly, submitting contributions to the topical sessions and share their research with colleagues and friends.

The SEE 2007 Organizing Committee is looking forward to cordially welcome you in Greece!