

Second Announcement

The Second International Symposium on Space Climate:

Long-term Change in the Sun and its Effects in the Heliosphere and Planet Earth

Sinaia, Romania, 13-16 September 2006

The Second International Symposium on Space Climate “*Long-term Change in the Sun and its Effects in the Heliosphere and Planet Earth*” will be held in Sinaia, Romania, 13–16 September 2006, under the aegis of the Romanian Academy and of its President’s high patronage. It will be hosted by the Astronomical Institute of the Romanian Academy and the Institute for Space Sciences, Bucharest, Romania.

Scientific Rationale

The Symposium aims to cover a wide range of topics covered nowadays under the overall concept of Space Climate, i.e., the long-term change in the Sun, and its effects in the heliosphere and upon the Earth. The topics of the Symposium include, e.g.,

- What can we learn about the long-term evolution of the Sun from other stars?
- How does sunspot activity evolve in time?
- What do we know about the long-term variation of solar irradiance?
- What do we know about the long-term evolution of the Sun from helioseismology?
- How can we understand long-term changes in the solar dynamo?
- Are there systematic patterns in the hemispheric and spatial distributions of solar activity?
- What can we learn about the long-term evolution of the Sun and heliosphere from cosmic rays and cosmogenic isotopes?
- How does the solar wind vary over the solar cycle and longer time scales?
- Causes and properties of magnetic storms over the solar cycle and longer time scales;
- What is the effect of the changing terrestrial magnetic field on the cosmic rays?
- What do we know of the long-term change in the geomagnetic and auroral activity?
- What are the solar and anthropogenic effects on global climate?
- How does the changing solar activity affect the terrestrial climate?
- How does solar variability affect global climate patterns?
- Is there evidence of cosmic rays affecting clouds and global climate?

- Has solar variability affected human culture?

The Symposium aims to discuss the above and related topics in an inspiring and informal atmosphere in the Romanian Mountains. The program will consist of a number of invited talks, shorter contributed oral presentations and posters.

Preliminary program

Section 1. Long-term solar activity

- Stellar lessons;
- Long-term solar irradiance;
- Solar cycle according to helioseismological measurements;
- Long-term change in sunspot activity and other solar parameters;
- Long-term variance of solar dynamo;
- Active longitudes
- North-South asymmetry

Section 2. Heliosphere and cosmic rays

- Long-term change in HMF;
- Long-term and global properties of the solar wind;
- Solar cycle change in CME properties;
- Long-term change in cosmic rays
- Long-term change in cosmogenic isotopes

Section 3. Terrestrial effects

- Long-term geomagnetic activity
- Long-term trends in terrestrial magnetic field
- Long-term change in the ionosphere and magnetosphere
- Effects of the solar and cosmic ray variability on the Earth's atmosphere
- Solar effects on global climate
- Solar effects on culture and mankind

Debates on “hot” topics, like

- What is the centennial change in geomagnetic activity and what does it imply?
- What does C-14 imply about long-term solar activity?
- Is there a correlation between cosmic rays and clouds and what does it imply?

Invited Speakers

E. Babayev, J. Beer, P. Bencze, V. Bothmer, P. Charbonneau, F. Clette, E. Cliver, C. Demetrescu, M. Dikpati, M. Echim, A. Ferriz-Mas, J. Feynman, K. Georgieva, R. Howe, E. V. Ivanov, J. R. Johnson, J. Kozyra, G. Maris, K. McCracken, M. Messerotti^{*)},

K. Mursula, D. Nandi, V. Obridko, E. Palle, A. Rouillard, J.-P. Rozelot, A. Ruzmaikin, W. Schmutz, S. Solanki, L. Svalgaard, H. Svensmark, B. Tinsley, I. Usoskin, I. M. Vaquero, I. Veselovsky
(* to be still confirmed)

Abstracts

The deadline for abstract submission is 30 June 2006.

Abstracts (up to 400 words) can be submitted either by filling the web form in <http://www.issc2.ro/3.html>, or by sending the plain text, Word or LaTeX formatted abstract to loc@issc2.ro

Please also indicate the presenting author and presentation type.

Abstracts will be printed in an abstract booklet and distributed during the Symposium.

Registration

The deadline for early registration is 31 July 2006 until when the registration fee is 200 Euro (255 USD). Thereafter the registration fee is 275 Euro (345 USD).

Registration fee includes conference materials, coffee break service, lunches during the Symposium, welcome reception and Symposium dinner. The fee for accompanying persons is 150 Euro (190 USD), which includes lunches, welcome reception and Symposium dinner.

Important dates

30 June – Abstract Submission deadline

31 July – Early Registration deadline

15 August - Third Announcement with Final Program

12 September - Travel to Sinaia

13-15 September - Scientific Sessions

16 September - Excursion

Financial Recommendation

Participants from those countries whose Academy has a bilateral agreement with the Romanian Academy are advised to turn to the Academy of their country for a possible grant of a week's visit to Romania for academic exchange. Among such countries are, for instance, Austria, Bulgaria, China, The Czech Republic, Finland, Hungary, Israel, Japan, Macedonia, Moldavia, Poland, Russia, Serbia & Montenegro, Slovakia, Sweden, Turkey, Ukraine etc.

Travel Information

Arrival by plane:

The closest international airport from Sinaia is: the International Airport „Henri Coanda“, Otopeni – Bucharest (OTP). Information on flights, conditions, border formalities and many more are available at:

<http://www.otp-airport.ro/www/index.html?&setLanguage=EN>

Note that once you reach Bucharest the travel to Sinaia will be arranged by the organizers. Therefore, all participants arriving by plane are kindly asked to inform us about their arrival and departure times.

Arrival by train:

If you come to Romania by train, there are some routes, which pass through Sinaia before reaching Bucharest. These routes are the ones that enter Romania through Curtici or Episcopia Bihor. For more information on specific routes please go to:

http://www.infofer.ro/default_engleza.asp?lng=2

For information on, e.g., accommodation and visa regulations please see the Symposium web page:

<http://www.issc2.ro/>

Welcome to Sinaia!

Sincerely Yours,

Georgeta Maris, SOC co-chair and LOC chair, Astronomical Institute of the Romanian Academy, Bucharest, Romania

Kalevi Mursula, SOC co-chair, University of Oulu, Oulu, Finland