

Second Circular – Workshop of the International Space Science Institute (ISSI)

Solar dynamics and its effects on the heliosphere and Earth

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1. General information

The International Space Science Institute (ISSI) is hosting a workshop on *Solar dynamics and its effects on the heliosphere and Earth*. The attendance at this workshop is by invitation only. About 50 participants have been approached earlier with a letter of invitation and a [First Circular](#), a large number of whom have given a positive reply (38 at the time of writing).

The aim of this Second Circular is to provide the participants with more detailed information on the workshop programme, organisation and logistics, and to enquire about hotel reservation information. A Third Circular will be distributed about a couple of weeks before the workshop as a reminder and to give some last minute information.

Please consult the letter of invitation and our WWW homepage at www.issi.unibe.ch for general information about ISSI.

2. Workshop topic

The SOHO and Cluster missions form a single ESA cornerstone. Yet they observe very different regions in our solar system: the solar atmosphere on one hand and the Earth's magnetosphere on the other. At the same time the Ulysses mission provides observations in the third dimension of the heliosphere, and many others add to the picture from the Lagrangian point L1 to the edge of the heliosphere. It is the aim of this ISSI workshop, under the auspices of the International Living With a Star (ILWS) program, to tie these observations together in addressing the topic of *Solar Dynamics and its Effects on the Heliosphere and Earth*. The Workshop will start out with an assessment and description of the reasons for solar dynamics and how it couples into the heliosphere. The three subsequent days will each be devoted to following one chain of events from the Sun all the way to the Earth's magnetosphere and ionosphere: The normal solar wind chain, the chain associated with coronal mass ejections, and the solar energetic particles chain. The final day of the workshop shall be devoted to common physical processes occurring both at the Sun and in the magnetosphere such as reconnection, shock acceleration, dipolarisation of magnetic field, and others.

3. Workshop date and place

The one-week workshop will be held from 10 a.m. on Monday, 18 April 2005 to about 4 p.m. on Friday, 22 April 2005, at the International Space Science Institute, Hallerstrasse 6 (1st floor), in Bern, Switzerland.

4. Structure of the workshop

The workshop will be structured into five sessions. Bracketed by an opening day on the Sun and solar dynamics and a closing day on commonalities in the solar and the terrestrial environments, each of the middle three days follows one particular chain of events “from the cradle to the grave”, i.e., the solar wind chain (including CIRs), the CME chain, and the energetic particle chain.

5. Workshop program

The draft workshop program is available at the workshop website under [program.htm](#). All talks will be 30 minutes plus 10-15 minutes for discussion. Note that some of the talk titles have been chosen by the convenors and thus are tentative only. Speakers should please provide us with a more appropriate title, if they wish, for the final program. Also note that this is not the final program, so talks may still be shifted, but not from one day to another.. The file [program.htm](#) will be updated as the program reaches final shape.

6. Publication

A workshop volume is planned to be published by [Springer](#) (which has merged with our former publisher [Kluwer Academic Publishers](#)) both as a hardcover book in the [Space Sciences Series of ISSI](#) (SSSI) and as an issue of the journal [Space Science Reviews](#) (SSRv). Papers should be prepared in LaTeX and will run something like 12 pages in the SSRv style, which is relatively small, accommodating only some 450-500 words per page full of text. All papers will be reviewed. Further details about the publication (including LaTeX style files) will be given at the workshop.

7. Funding of the workshop

ISSI will fund the participants by providing the daily subsistence cost during the time of the meeting up to a maximum of 7 days (time of arrival in Bern through departure from Bern). This includes the cost for the hotel and for meals. However, ISSI is not in a position to cover travel costs, taxis, phone calls etc.

There will be no registration fee for this workshop.

ISSI will also cover the publication costs of the printed volume, of which each participant will receive a free copy.

8. Equipment available at ISSI

ISSI is equipped with a pool of different kinds of workstations such as PCs, Macs, and Sun Stations, as well as with Postscript printers for both b/w and colour. All machines have Ethernet connections and run web browsers, ssh, telnet, ftp, etc., so connecting home, accessing email, printing, etc. while at ISSI will be no problem.

Participants who bring their own notebook computers will be able to connect to the Ethernet through the standard RJ45 plug. Cables are available at ISSI and addresses will be dealt out by our DHCP server. We also provide wireless access; participants wishing to use that will receive a username/password combination from our computer engineer and system administrator, Saliba F. Saliba (saliba@issi.unibe.ch), who will also help with any computer-related questions.

The seminar room is equipped with a computer and beamer for electronic presentations, a video player, two overhead projectors, a slide projector, and a whiteboard.

9. Social program

An informal welcome drink will be offered at the end of the first day at ISSI, on Monday, 18 April 2005, at 6 p.m.

A free afternoon is foreseen on Thursday, 21 April 2005, when which we will take a walk through the city of Bern along the new Einstein Path. (As everyone will know this is the centenary of Einstein's annus mirabilis in 1905, when he lived and worked in Bern, see www.einstein-year.ch).

A workshop dinner will be offered to all participants in the evening of Thursday, 21 April 2005, at 7:00 p.m., in a restaurant located in the old part of the city.

10. Travelling to Bern

Bern can be reached easily from two international airports: [Zurich \(ZRH\)](#) and [Geneva \(GVA\)](#). Direct intercity trains to Bern depart every half hour from inside the airport buildings; see www.rail.ch for detailed departure times. The travel time is ~1.5 hours from Zurich airport and ~2 hours from Geneva airport.

There is also a local airport (Bern, BRN), located a 20 minute shuttle ride from the city centre, with connections to several European cities (London, Munich, etc.). Bern is connected to many European cities by fast intercity trains (e.g. TGV Paris-Bern in 4.5 hours, or Frankfurt-Bern 5 hours). Timetable information of trains within and around Switzerland can be found at www.rail.ch. Also check out www.issi.unibe.ch/guide.html for a few more travel tips such as links to city maps of Bern, weather forecasts, currency calculators, etc...

11. Hotel reservations

All participants at the workshop are now requested to contact the workshop secretary, Brigitte Fasler (Tel. +41-31-631-4896, Fax: +41-31-631-4897, email: fasler@issi.unibe.ch), to indicate their arrival and departure dates and times, as well as any special requests they may have (e.g. double room). A confirmation will be returned within a few days. Block bookings have been made in nearby hotels; please see www.issi.unibe.ch/hotel_info.html for a map indicating the location of the hotels and of ISSI. Participants who have not yet sent us their registration form (see [First Circular](#))

12. Deadlines

Registration form: As soon as possible (if not done yet)

Hotel reservation information: **21 March 2005**

13. List of Participants

All participants listed in the file [program.htm](#) have confirmed their attendance, including those additional ones listed at the end, except those marked as (TBC).