

Coimbra Solar Physics Meeting „Ground based Solar Observations in the Space Instrumentation Era“, 5 - 9 October 2015, Coimbra, Portugal

The 2015 Coimbra Solar Physics Meeting (CSPM-2015) on “**Ground based Solar Observations in the Space Instrumentation Era**” will be held during 5 - 9 October 2015 in Coimbra, Portugal.

The meeting will be hosted by the University of Coimbra (<http://www.uc.pt/en>), one of the oldest European universities (founded in 1290), located in the central region of Portugal, between Lisbon (200 km to the south) and Porto (100 km to the north) and about 40 km from the Atlantic Ocean coast at Figueira da Foz.

Full-disk spectroheliograms have been produced routinely by the Astronomical Observatory of the University of Coimbra (Observatório Astronómico da Universidade de Coimbra - OAUC), in the Ca II K-line (K1 and K3) since 1926 and in 1990, regular observations in the H α line have also started. In order to celebrate the 80th anniversary of the first spectroheliographic observations in Coimbra, in 2006, the OAUC organized a first Coimbra Solar Physics Meeting dedicated to “The Physics of the Chromospheric Plasmas” (CSPM-2006).

Now, we invite again a wide scientific community to join us in 2015, this time for discussing the state-of-art solar ground-based and space-based observing techniques and related topics. This meeting is included in the celebration of the 150 years of Geophysical Institute of the University of Coimbra.

Co-organizers:

- Geophysical and Astronomical Observatory, University of Coimbra (OGAUC)
- Center of Geophysics, University of Coimbra (CGUC, <http://geofisico.dyndns.org/>)
- Geo-Space Sciences Research Centre, University of Porto (CICGE, <http://www.fc.up.pt/cicge/>)
- CENTRA - Instituto Superior Técnico, Univ. de Lisboa, Portugal, (<http://centra.tecnico.ulisboa.pt>)
- Slovak Central Observatory, Hurbanovo, Slovakia (SCO, <http://www.suh.sk>)

Objectives

The Sun and its activity affect the entire heliosphere, including the Earth. Solar activity includes flares, coronal mass ejections (CMEs), eruptive prominences and filaments, outbursts at various spatial scales, sunspots, and plages. All these phenomena are driven by the magnetic field. Although these phenomena appear at time scales from seconds to months, the long-term variation of the magnetic field during the 11-year solar cycle modulates their frequency and space weather impact.

Solar magnetic fields can be investigated from ground and space. Ground based observations of solar magnetic field using polarimetry has a long history, contributing to the understanding of long-term behaviour of the Sun. Coronal phenomena are driven by the dynamo-generated fields that show large-scale organization.

This CSPM-2015 scientific meeting will cover various aspects of solar dynamic phenomena which are well observed over the entire electromagnetic spectrum: white-light, H α , Ca II, and radio from ground and in a variety of other wavelengths (white light, UV and EUV, and X-rays) from space. Emphasis will also be placed on instrumentation, observing techniques, and solar image processing techniques. The long-term (cyclic) evolution of solar magnetism and its consequence for the solar atmosphere, eruptive phenomena, solar irradiation variations, and space weather, will be in focus. Here, special attention will be devoted to the long-term observations made in Coimbra and also to the results of the SPRING / SOLARNET and SCOSTEP VarSITI studies. In particular, the weak solar activity during the current solar maximum will be discussed. Finally, a session will be specially dedicated to new solar instruments (both ground-based and space-borne) that will give access to unexplored solar atmospheric features and dynamic phenomena over the coming years.

The **conference programme** will include the following sessions:

Session 1: Observations of the Sun (quiet and active Sun, magnetic fields, high-resolution (polarimetric) observations and transient phenomena from the photosphere to the chromosphere and corona)

Session 2: Solar image management, spectro-polarimetric and processing techniques (overview of image management, spectro-polarimetric and processing techniques including tutorials)

Session 3: Theory and modeling - comparison to observations (constraints from observations)

Session 4: Long-term variations of the Sun (long-term (cyclic) evolution of solar magnetism and its consequence for the solar atmosphere, eruptive phenomena, solar irradiation variations, and space weather)

Session 5: Facilities for ground-based and space solar observations (existing and new facilities)

PRELIMINARY SCIENTIFIC PROGRAMME OF THE COIMBRA SOLAR PHYSICS MEETING

Date	Morning (9.00-12.30)	Afternoon (14.30-18.00)	Evening
Sun, 4 Oct	Arrival	Arrival, 18.00-20.00: Registration and welcome drink	Meeting of the SOC/LOC
Mon, 5 Oct	Session 1: Observations of the Sun	Session 1: Observations of the Sun	Welcome reception
Tue, 6 Oct	Session 1: Observations of the Sun Poster session	Excursion: University's Patio Session 2: Solar image management, spectro-polarimetric and processing techniques	
Wed, 7 Oct	Session 2: Solar image management, spectro-polarimetric and processing techniques	Excursions: Spectroheliograph – Geophysical and Astronomical Observatory; Conimbriga – ruins of the ancient roman town	
Thu, 8 Oct	Session 3: Theory and modeling – comparison to observations Poster session	Session 4: Long-term variations of the Sun Thomas Metcalf Lecture	Conference dinner
Fri, 9 Oct	Session 4: Long-term variations of the Sun	Session 5: Existing and new facilities for ground-based and space solar observations	Meeting of the SOC/LOC

SOC - SCIENTIFIC ORGANIZING COMMITTEE

J. Abouardham (OBSPM, Paris-Meudon, France)
F. Clette (ROB, Brussels, Belgium)
I. Dorotovič (OGAUC/CGUC, Coimbra; UNINOVA-CA3, Caparica, Portugal;
SCO, Hurbanovo, Slovakia) - **co-chair**
C. Fischer (KIS, Freiburg, Germany)
L. Fletcher (University of Glasgow, UK)
N. Gopalswamy (NASA/GSFC, Greenbelt, USA)
A. Kučera (AI SAS, Tatranská Lomnica, Slovakia) - **co-chair**
D. Maia (CICGE, University of Porto, Portugal)
M. Sobotka (AI ASCR, Ondřejov, Czech Republic)
Y. Suematsu (NAOJ, Tokyo, Japan)
M. Temmer (IGAM, University of Graz, Austria)
J. Trujillo Bueno (IAC, La Laguna, Tenerife, Spain)
G. Tsiropoula (NOA, Athens, Greece)
B. Vršnak (Hvar Observatory, Zagreb, Croatia)

LOC - LOCAL ORGANIZING COMMITTEE

T. Barata (OGAUC/CITEUC, Coimbra, Portugal)
S. Carvalho (OGAUC/ CITEUC, Coimbra, Portugal)
I. Dorotovič (OGAUC/ CITEUC, Coimbra; UNINOVA-CA3, Caparica, Portugal; SCO, Hurbanovo, Slovakia)
T. Esperança (OGAUC, Coimbra, Portugal)
J. Fernandes (OGAUC/ CITEUC, Coimbra, Portugal) – **Chair**
A. Garcia (OGAUC, Coimbra, Portugal)
D. Maia (CICGE, University of Porto, Portugal)
A. Morozova (OGAUC/ CITEUC, Coimbra, Portugal)
D. Passos (CENTRA - Instituto Superior Técnico, Univ. de Lisboa, Portugal; GRPS, Univ. Montreal, Canada)

DEADLINES

- **15 November 2014** - First Announcement, web-site opens
 - Registration, hotel reservation, and abstract submission opens
- **30 April 2015** - Closing date for abstract submission I.
 - (for those who are going to apply for financial support)
 - Closing date for financial support applications
- **20 June 2015** - Closing date for abstract submission II.
 - (for those who do not apply for financial support)
 - Information on financial supports
 - Closing date for Thomas Metcalf SPD Travel Award applications
- **5 July 2015** - Information on accepted abstracts
 - Second Announcement (Programme Finalised)
- **15 July 2015** - Closing date for early bird registration
- **31 August 2015** - Closing date for late registration
 - and late abstracts (can be accepted only as posters)
 - Closing date for hotel reservation
 - Final Announcement
- **4 October 2015** - Arrival, registration of participants
- **5 October 2015** - Meeting starts
- **9 October 2015** - Meeting ends
- **30 November 2015** - Submission deadline for proceedings manuscripts

FINANCIAL SUPPORT

Limited financial support (waiving of the registration fee or providing free accommodation in the University Residence, and providing free meals in the University canteen) will be available with the priority to young participants and invited speakers.

We look forward to seeing you in Coimbra.

João Fernandes (OGAUC/CITEUC, Coimbra, Portugal)

Dalmiro Maia (CICGE UP, Porto, Portugal)

Ivan Dorotovič (OGAUC/ CITEUC, Coimbra; UNINOVA-CA3, Caparica, Portugal; SCO, Hurbanovo, Slovakia)