

Xth Hvar Astrophysical Colloquium
THE ACTIVE SUN
6 - 10 September 2010, Hvar, Croatia

FINAL ANNOUNCEMENT

The Xth Hvar Astrophysical Colloquium "The Active Sun" is organized by Hvar Observatory, Faculty of Geodesy, University of Zagreb and is held under the auspices of the Croatian Astronomical Society and the Hvar Town Council. The Colloquium is sponsored by the Ministry of Science, Education and Sports, Republic of Croatia.

SCIENTIFIC ORGANIZING COMMITTEE:

Vladimir Ruždjak (chair)
Arnold Hanslmeier (co-chair)
Roman Brajša
Edward W. Cliver
Nat Gopalswamy
Marian Karlický
Aleš Kučera
Andras Ludmány
Gottfried Mann
Janusz Sylwester
Bojan Vršnak

LOCAL ORGANIZING COMMITTEE:

Domagoj Ruždjak (chair)
Jaša Čalogović
Slaven Lulić
Davor Sudar
Katica Vučetić
Tomislav Žic

SCIENTIFIC SESSIONS:

- Dynamics of the Photosphere
- Physical Processes in the Chromosphere and Corona
- Energetic Particles
- Heliosphere and Terrestrial Effects
- Observing Techniques and Data Archives

CONFERENCE MEETING PLACE: Town Loggia, Hvar, Croatia (The Town Loggia is located in front of the hotel "Palace")

CONTACT ADDRESS:

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TRAVEL

Split on the mainland (served by an international airport) is connected with the island of Hvar by several local lines according to the time table given below.

FERRY TIME TABLE TO THE ISLAND OF HVAR FOR SEPTEMBER 2010

Catamaran (no cars):

Split – Hvar 11:30 and 15:00, every day

Hvar – Split 6:30 and 13:45, every day except Sunday

Hvar – Split 9:00 and 13:45 on Sunday

the trip takes about 1 hour

Split – Bol – Jelsa 16:00, every day,

the trip takes about 90 minutes.

Jelsa is also on the island of Hvar and there is a bus connection to Hvar (approx. 30 km)

Car ferry:

Split – Stari Grad 5:00, 8:30, 11:00, 14:30, 17:00 and 20:30, every day

Stari Grad – Split 5:30, 7:45, 11:30, 14:00, 17:30 and 20:00, every day

the trip takes about 2 hours

from Stari Grad to Hvar there is a bus connection (approx. 20 km)

additional information can be found at the site: www.jadrolinija.hr

ADDITIONAL INFORMATION

For oral presentations an overhead projector and video beamer will be provided. The time for oral presentations is limited to 30 minutes (reviews 40 min.), authors should reserve 5 minutes for discussion. Authors of posters can give a brief introduction (about 5 min) according to the schedule given in the Programme. All contributions will be published in a special volume of the Central European Astrophysical Bulletin.

Venue and Climate: The meeting will be held in the medieval town Hvar situated on the Mediterranean island Hvar. The weather in September is usually fine and calm with average day-time temperatures between 20 and 25 C. The sea temperature is above 20 C.

PROGRAMME

Monday, September 6, 2010

8:30 – 9:00	Registration
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Dynamics of the Photosphere I chairperson: **K. Petrovay**

9:00 – 9:20	Opening Addresses
9:20 – 10:00	J.O. Stenflo: Magnetic fields on the quiet Sun (<i>Review</i>)
10:00 – 10:30	D. Utz, A. Hanslmeier, A. Veronig, O. Kühner, R. Muller, and H. Muthsam: Magnetic energy estimation for small scale magnetic fields by observation of magnetic bright points
10:30 – 11:00	O. Kühner, D. Utz, A. Hanslmeier, A. Veronig, R. Muller, and H. Muthsam: Multiwavelength investigations of magnetic bright points and their morphologic appearance with height

11:00 – 11:30	coffee – break
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Dynamics of the Photosphere II chairperson: **J.O. Stenflo**

11:30 – 12:00	K. Petrovay and M. Balázs : The Waldmeier effect in Greenwich facular areas (<i>Invited talk</i>)
12:00 – 12:30	K.Georgieva: Why the sunspot cycle is double peaked
12:30 – 13:00	R. Brajša, A. Hanslmeier, G. Verbanac, H. Wöhl, M. Roth, and L. Svalgaard: A prediction for the 24th solar cycle 20 months after the minimum of solar activity

Special Session I

16:00 – 17:00	SOTERIA activities
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Dynamics of the Photosphere III chairperson: **A. Özgüç**

17:00 – 17:30	R. Jurdana-Šepić, R. Brajša, H. Wöhl, A. Hanslmeier, and S. F. Gissot: A relationship between solar rotation and activity in the period 1998-2006
17:30 – 18:00	I. Poljančič, R. Brajša, D. Hržina, H. Wöhl, A. Hanslmeier, W. Pötzi, T. Baranyi, A. Özgüç, and J. Singh: Differences in heliographic positions and rotation velocities of sunspot groups from various observatories

Poster Session chairperson: **R. Brajša**

18:00 – 19:00	Poster presentations
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Tuesday, September 7, 2010

Energetic Particles I chairperson: **E. Zlotnik**

9:00 – 9:40	Arnold O. Benz: Radio Emission and X-rays of Solar Flares Distant Relatives? (<i>Review</i>)
9:40 – 10:10	N. Gopalswamy and P. Makela: Low-frequency type III bursts and solar energetic particle events
10:10 – 10:40	O.N. Savina and P.A. Bepalov: Ion-acoustic instability and anomalous thermal conductivity in the Solar transition region
10:40 – 11:10	M. Varady, J. Kasparova, Z. Moravec, M. Karlicky and P. Heinzel: Formation of Balmer lines in impulsively heated flare atmosphere by neutral beams

11:10 – 11:30	coffee – break
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Energetic Particles II chairperson: **W. Curdt**

11:30 – 12:10	E.W. Cliver and G.J.D. Petrie: Sudden Changes in the Longitudinal Magnetic Fields of Active Regions and Particle Acceleration in Solar Flares (<i>Review</i>)
12:10 – 12:40	L.K. Kashapova, I.Yu. Grigoryeva, M.A. Livshits and V.N. Borovik: A study of plasma parameters before the CME/flare event on 6 July 2006 : microwave vs HXR observations
12:40 – 13:10	L.K. Kashapova and T.S. Sizykh: Study of acceleration processes of the 14th July 2005 flare series occurred in AR 10786

Special Session II chairperson: **A.O. Benz**

17:00 – 18:00	Current and Future Space Probes for Solar Observations
18:00 – 19:00	SOTERIA activities

Wednesday, September 8, 2010

Physical Processes in the Chromosphere and Corona I chairperson: **B. Vršnak**

9:00 – 9:30	V. Ishkov: The dynamic phenomena: large solar flare events (<i>Invited talk</i>)
9:30 – 10:00	J. K. Thalmann, T. Wiegelmann and B. Inhester: Magnetic helicity in solar active regions
10:00 – 10:30	T. Mrozek, S. Kolomanski, U. Bąk-Stęślička: RHESSI investigation of HXR coronal sources during decay phase of solar flares: I. observations
10:30 – 11:00	S. Kolomanski, T. Mrozek, U. Bąk-Stęślička: RHESSI investigation of HXR coronal sources during decay phase of solar flares: II. energy balance
11:00 – 11:30	coffee – break

Physical Processes in the Chromosphere and Corona II chairperson: **M. Tomczak**

11:30 – 12:00	L.K. Kashapova, P. Kotrč and Yu.A. Kupryakov: On the pre-CME phase of the 18 March 2003 solar flare
12:00 – 12:30	U. Bąk-Stęślička, T. Mrozek and S. Kolomanski: A survey of CMEs associated with slow rise-phase flares
12:30 – 13:00	A.M. Veronig, M. Temmer, I. Kienreich, N. Muhr, B. Vršnak, B. Bein and S. Berkebile-Stoiser: The relation between impulsive CME dynamics and coronal shock waves
13:00 – 13:30	B. Bein, S. Berkebile-Stoiser, A. Veronig and M. Temmer: Statistics of CME Kinematics and Solar Flare Energetics

Special Session III

16:00 – 17:00	SOTERIA activities
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Physical Processes in the Chromosphere and Corona III chairperson: **N. Gopalswamy**

17:00 – 17:30	N. Muhr, I.W. Kienreich, A. Veronig, M. Temmer and B. Vršnak: Kinematical and structural analysis of global disturbances in the solar corona as observed by the STEREO spacecraft
17:30 – 18:00	I.W. Kienreich, A.M. Veronig, N. Muhr, M. Temmer and B. Vršnak: Case-study of homologous EIT waves observed by STEREO/EUVI
18:00 – 18:30	M. Tomczak and E. Chmielewska: X-ray Plasma Ejections and their association with other solar-activity phenomena
18:30 – 19:00	P. Schwartz, S. Gunar and P. Heinzel: Systematic study of behaviour of the 2D multi-thread model of prominence

Thursday, September 9, 2010

Physical Processes in the Chromosphere and Corona IV chairperson: **E. Cliver**

9:00 – 9:30	E.Ya. Zlotnik, V.V. Zaitsev and H. Aurass: Radio signature of coronal magnetic loop oscillations (zebra pattern wave-like frequency drift) (<i>Invited talk</i>)
9:30 – 10:00	M. Zapiór and P. Kotrč: Oscillations of prominences observed by MSDP and HSFA
10:00 – 10:30	J. Sylwester, B. Sylwester and K.J.H. Phillips: Determinations of elemental abundances and properties of coronal plasmas
10:30 – 11:00	B. Sylwester, J. Sylwester, M. Siarkowski and S. Kuzin: Physical conditions of AR 11024 plasma based on SphinX and the other data
11:00 – 11:30	coffee – break

Physical Processes in the Chromosphere and Corona V chairperson: **V. Ishkov**

11:30 – 12:00	Werner Curdt: The coronal convection (<i>Invited talk</i>)
12:00 – 12:30	T. Rotter, A. Veronig, M. Temmer and B. Vršnak: Detection of coronal holes in SoHO EIT images.
12:30 – 13:00	V. Slemzin: Coronal rays as indicators of the solar wind streams from active regions
13:00 – 13:30	J. Skala, M. Barta and M. Varady: Advanced MHD modeling of plasma processes in solar physics

Observing Techniques and Data Archives chairperson: **P. Kotrč**

16:30 – 17:00	M. Klvaňa, M. Sobotka, J. Zeman, Z. Melich, Z. Rail, M. Peca: Full-disc telescope for EST
17:00 – 17:30	W. Hirtenfellner, W. Pötzi, M. Temmer, H. Freislich, A.M. Veronig and A. Hanslmeier: Implementation of a Calcium telescope at Kanzelhöhe Observatory
17:30 – 18:00	Susanna Tokhchukova: Presentation of the RATAN-600 solar data for solar community.
18:00 – 18:30	K. Jiříčka and M. Karlický: Fine structures of radio bursts observed by the modernized Ondrejov radio spectrograph during the February 12, 2010 flare.
18:30 – 19:00	D.A. Zhdanov and V.G. Zandanov: A broadband spectrometer for microwave radio burst observations: first result

21:00 –	Wine and cheese in a Dalmatian konoba
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Friday, September 10, 2010

Heliosphere and Terrestrial Effects I chairperson: **J. Sylwester**

9:00 – 9:40	John Richardson: The Effects of the Active Sun on the Outer Heliosphere (<i>Review</i>)
9:40 – 10:10	B. Heber, N. Dresing, R. Gomez-Herrero, A. Klassen, R. Mueller-Mellin and W. Droege: STEREO/SEPT observations of solar energetic particle events during the rising phase of solar cycle 24 (<i>Invited talk</i>)
10:10 – 10:40	M. Temmer, C. Möstl, A. Veronig, O. Flor and T. Rollett: Tracking CMEs from Sun to Earth
10:40 – 11:10	I.E. Dammasch et al.: Solar Irradiance Observations with LYRA on PROBA2
11:10 – 11:30	coffee – break

Heliosphere and Terrestrial Effects II chairperson: **A. Veronig**

11:30 – 12:00	Olesya Yakovchouk: Some Physical Properties and Statistics of the Most Powerful Perturbations on the Sun and in the Heliosphere
12:00 – 12:30	A. Kilcik, A. Özgüç, J-P. Rozelot: Latitude Dependency of the Sun-Climate Relation for the Eastern Europe and Middle-East
12:30 – 13:00	M. Dumbović, B. Vršnak, J. Čalogović and M. Karlica: Cosmic Ray modulation by Solar Wind Disturbances

LIST OF REGISTERED PARTICIPANTS

Bak-Stęślicka Urszula, Astronomical Institute, University of Wrocław
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Benz Arnold O., ETH Zurich
Bespalov Peter, Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod
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Sylwester Janusz, Astronomical Institute, University of Wrocław
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