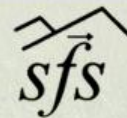




2011 ISWI-Europe Summer School in Space Science

August 21-27, 2011, Astronomical Institute of the SAS, Tatranská Lomnica, Slovakia



ISWI School Report

21 – 27 August 2011, Tatranská Lomnica, Slovakia

http://stara.suh.sk/id/iswi/summer_school

Ivan Dorotovič and Nat Gopalswamy

Scientific Program

A. Kučera – Centre of Space Research: Space Weather Influences

P. Heinzel – The Sun from Space

W. Dziembowski – Solar Interior

R. Erdélyi – Fundamentals of MHD in Space Research

E. D. Lopez – Solar Dynamo Processes,
Solar Wind - Earth's Magnetosphere Coupling

M. Sobotka – Solar Photosphere

J. Koza – Solar Chromosphere

J. Dudík – Solar Corona and the Inner Heliosphere

I. Dorotovič – ISWI in Slovakia

M. Bárta – Reconnection Processes in the Sun and the Inner Heliosphere

N. Gopalswamy – Solar Eruptions, CMEs and Space Weather;
CMEs / Data Analysis

D. Odstrčil – Numerical Heliospheric Code ENLIL and Space Weather Predictions

R. Huth – Effects of Solar Activity on Earth's Climate

D. J. F. Maia – Solar Energetic Particles, Solar Radio Emission Processes

D. Pérez-Suárez – The HELiophysics Integrated Observatory (HELIO)
Hands-on with HELIO

K. Kudela – Cosmic Rays in Relation to Space Weather

J. Lastovička – Long-term Trends in the Ionosphere and Upper Atmosphere

Scientific Program ...

A. Hanslmeier – Space Weather on Exoplanets

Ch. Amory-Mazaudier – Electric Currents in the Earth's Environment and Impacts
on Nex Technologies

R.A. Ribeiro – Computer Intelligence Techniques in Time Series Analysis

F. Valach – Neural Networks as Universal Approximators

F. Kamalabadi – Inverse Problems and Methods in Space Data Analysis,
Assimilation, and Imaging

J.M. Davila – Scientific Instruments for Space Exploration

M. Danielides – Sudden Ionospheric Disturbances Detected by Ground Methods

F. Jansen – International Space Weather Status: towards Space Situational
Awareness



Lecturers

Christine Amory-Mazaudier, LPP/CNRS-Ecole Polytechnique-UPMC,
Saint-Maur-Des-Fossés, France

Miroslav Bárta, Astronomical Institute of AS CR, Ondřejov, Czech Republic

Michael Danielides, Institute of Communications and Navigation,
German Aerospace Center (DLR), Neustrelitz, Germany

Joseph M. Davila, NASA/GSFC, Greenbelt, USA and ISWI

Ivan Dorotovič, Slovak Central Observatory, Hurbanovo, Slovakia

Jaroslav Dudík, Department of Astronomy, Physics of the Earth
and Meteorology, FMPI, Comenius University, Bratislava, Slovakia

Wojciech A. Dziembowski, Astronomical Observatory, Warsaw University,
Warsaw, Poland

Robert Erdélyi, Department of Applied Mathematics, University of Sheffield,
Sheffield, UK

Nat Gopalswamy, NASA/GSFC, Greenbelt, USA and ISWI

Arnold Hanslmeier, Institute of Geophysics, Astrophysics and Meteorology,
University of Graz, Graz, Austria

Petr Heinzel, Astronomical Institute of AS CR, Ondřejov, Czech Republic

Lecturers ...

Radan Huth, Institute of Atmospheric Physics of AS CR, Prague, Czech Republic

Frank Jansen, Institute of Space Systems, German Aerospace. Center (DLR),
Bremen, Germany

Farzad Kamalabadi, National Science Foundation, Arlington, USA

Július Koza, Astronomical Institute of SAS, Tatranská Lomnica, Slovakia

Aleš Kučera, Astronomical Institute of SAS, Tatranská Lomnica, Slovakia

Karel Kudela, Institute of Experimental Physics of SAS, Košice, Slovakia

Jan Laštovička, Institute of Atmospheric Physics of AS CR, Prague, Czech Republic

Ericson D. Lopez, Quito Astronomical Observatory, National Polytechnic School,
Quito, Ecuador

Dalmiro J. F. Maia, Astronomical Observatory, University of Porto, Porto, Portugal

Dušan Odstrčil, NASA/GSFC , Greenbelt and George Mason University, Fairfax, USA

David Pérez-Suárez, Trinity College, Dublin, Ireland

Rita A. Ribeiro, UNINOVA-CA3, Science and Technology Faculty, New University of
Lisbon, Caparica, Portugal

Michal Sobotka, Astronomical Institute of AS CR, Ondřejov, Czech Republic

Fridrich Valach, Geophysical Institute of SAS – Geomagnetic Observatory,
Hurbanovo, Slovakia

Total lecturers: **25** from 11 countries

Students

- Argentina 1
- Armenia 1
- Austria 1
- Brazil 1
- Bulgaria 1
- Croatia 2
- Czech Republic 4
- Ecuador 1
- Egypt 1
- Germany 4
- Greece 4
- China 1
- India 2
- Ireland 1
- Italy 1
- Kenya 1
- Korea 1
- Mexico 1
- Nigeria 1
- Poland 4
- Portugal 1
- Romania 4
- Slovakia 2
- Spain 1
- Turkey 1
- Ukraine 3

46 students
from 26 countries

Logistics and technical support **5**

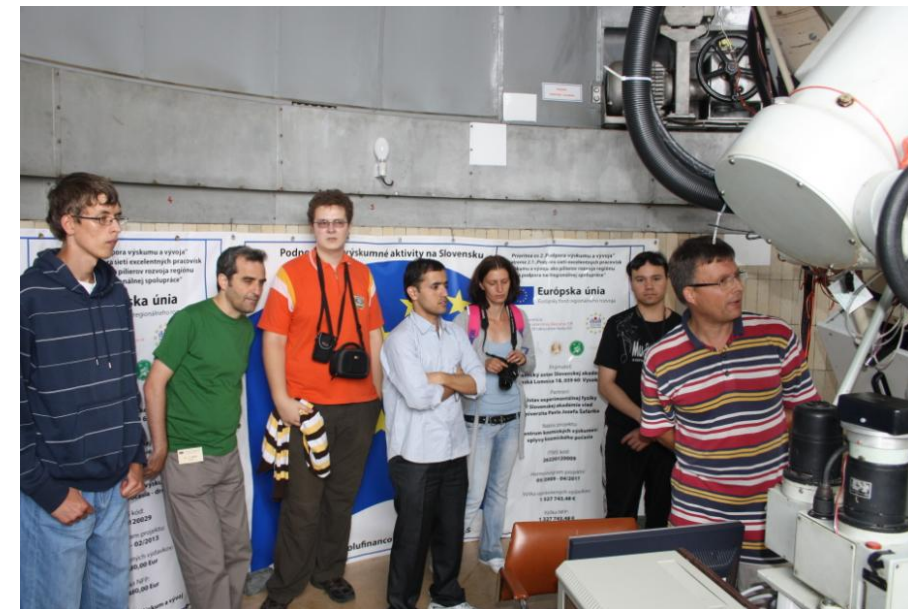
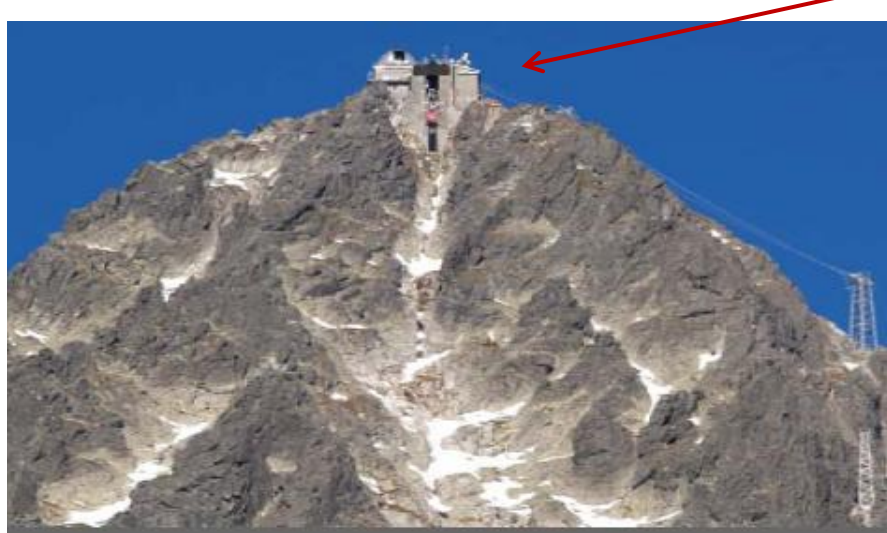
Total participants: 76



Participants

Excursion to the Lomnický Peak Observatory

24 August 2011



Public Relations

- Short news about the Summer School at the website of the Slovak Academy of Sciences: [in English](#) and [in Slovak](#)
- Interview with Ľubica Drutarovská for the Slovak Radio on Tuesday, 23 August 2011
- Article in a local biweekly newspaper of High Tatras: [in Slovak](#)
- [Photo Gallery](#) of the Summer School

Sponsors

- The school was hosted by the Centre of Excellence '*Centre of Space Research: Space Weather Influences*' [**Astronomical Institute** of the Slovak Academy of Sciences (AI SAS), Tatranská Lomnica, **Institute of Experimental Physics** of SAS in Košice (IEP SAS), and **Institute of Physics** of UPJ Š in Košice (IP UPJŠ)] and the **Slovak Central Observatory** (SCO), Hurbanovo.
- Sponsored by NASA, SCOSTEP/CAWSES-II, ICTP, ESA, SPS, EADS-ASTRIUM, AEF



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The banner features a background image of a mountain range under a blue sky. On the left is the ISWI logo, which is an oval containing a sun on the left and a moon on the right, with the text 'INTERNATIONAL SPACE WEATHER INITIATIVE' around the top and 'ISWI' in large letters in the center. Below the ISWI logo are several smaller logos: 'SKALNATE PLESKO' (a circular logo with a mountain scene), 'Slovak Central Observatory' (a building illustration), 'NASA' (the NASA logo), 'SCOSTEP' (with the text 'Scientific Committee on Solar-Terrestrial Physics' below it), 'CAWSES-II' (with the text 'Centre for Advanced Space Weather Studies' below it), 'ICTP' (with a globe icon), 'esa' (the ESA logo), 'sfs' (with a stylized roof icon), 'ASTRIUM' (with the text 'AN EADS COMPANY' below it), and 'AEF' (in a dark blue box with light effects).

Feedback

Great thanks for excellent school organization! I liked it very much. Participation in this summer school helped me a lot in understanding my future direction in science and expanded my knowledge in area of solar physics.

Antonina Klyuyeva (Ukraine)

Thank you for providing me the opportunity to participate in the ISWI summer school held in Tatranska Lomnica. I learned many things about Solar Physics and Space Weather and I am now seriously considering to start my career as a Solar physicist. Thank you for the support from EADS-ASTRIUM.

Alin Razvan Paraschiv (Romania)

Post-School

- Lectures are on Summer School website in the section of the [Scientific Program](#)
- Link to lectures to be put on [ISWI website](#)
and on [SCOSTEP / CAWSES II website](#)