

# 2011 ISWI-Europe Summer School in Space Science

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

## Preliminary Scientific Program

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### **Sunday - August 21, 2011**

- 9.45-10.45: Opening Ceremony
- 11.30-12.30: P. Heinzl – The Sun from space
- 14.00-15.00: W. Dziembowski – Solar Interior
- 15.30-16.30: R. Erdélyi – Fundamentals of MHD in Space Research I
- 17.15-18.15: A. Kučera / K. Kudela – Centre of Space Research: Space Weather Influences

### **Monday - August 22, 2011**

- 9.45-10.45: R. Erdélyi – Fundamentals of MHD in Space Research II  
Solar atmosphere and the inner heliosphere:
- 11.30-12.30: M. Sobotka – Photosphere
- 14.00-15.00: J. Koza – Chromosphere
- 15.30-16.30: J. Dudík – Corona and the inner heliosphere
- 17.15-18.15: I. Dorotovič – ISWI in Slovakia

### **Tuesday - August 23, 2011**

- 9.45-10.45: E. Lopez – Solar dynamo processes
- 11.30-12.30: M. Bárta – Reconnection processes in the Sun and the inner heliosphere
- 14.00-15.00: N. Gopalswamy – Solar eruptions, CMEs and space weather
- 15.30-16.30: N. Gopalswamy – CMEs / data analysis
- 17.15-18.15: R. Huth – Effects of solar activity on Earth's climate

### **Wednesday - August 24, 2011**

- 9.45-10.45: D.J.F. Maia – Solar energetic particles
- 11.30-12.30: D. Odstrčil – Numerical Heliospheric Code ENLIL and Space Weather Predictions
- 14.00-19.00: Excursion to the Lomnický Štít Observatory

### **Thursday - August 25, 2011**

- 9.45-10.45: D.J.F. Maia – Solar radio emission processes
- 11.30-12.30: D. Pérez-Suárez – The HELIophysics Integrated Observatory (HELIO):  
The whole heliosphere in your hands

14.00-15.00: K. Kudela – Cosmic rays in relation to space weather

15.30-16.30: J. Lastovička – Long-term trends in the ionosphere and upper atmosphere

17.15-18.15: A. Hanslmeier – Space Weather on exoplanets

### **Friday - August 26, 2011**

9.45-10.45: Ch. Amory-Mazaudier – Earth's currents and energy system

11.30-12.30: R.A. Ribeiro – Computer intelligence techniques in time series analysis  
(neural networks, data warehouse and fuzzy logic)

14.00-15.00: F. Valach – Neural networks as universal approximators  
- a practical example of space weather modelling

15.30-16.30: F. Kamalabadi – Inverse problems and methods in space data analysis, assimilation, and imaging

17.15-18.15: J.M. Davila – Scientific instruments for space exploration

### **Saturday - August 27, 2011**

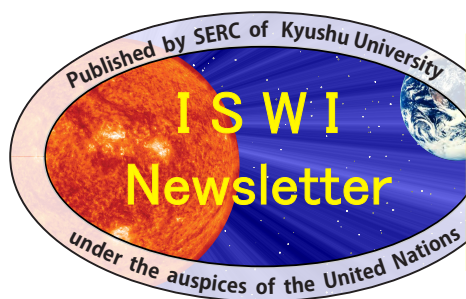
9.45-10.45: D. Pérez-Suárez – Hands-on with HELIO

11.30-12.30: E. Lopez – Solar wind - Earth's magnetosphere coupling

14.00-15.00: M. Danielides – Sudden ionospheric disturbances detected by ground methods

15.30-16.30: F. Jansen – International Space Weather Status: towards Space Situational Awareness

17.15-18.15: Closing Ceremony, discussion



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