





International Advanced School on Space Weather Modelling and Applications

Cosponsor(s): EC COST Action ES0803 "Developing Products and Services for Space Weather in Europe", EC FP7 Project SOTERIA "SOLar-TERrestrial Investigations and Archives", National Institute for Astrophysics (INAF, Italy), European Space Agency (ESA)

Organizer(s): Directors: A. Belehaki, M. Messerotti, G. Lapenta, S. Radicella Trieste - Italy, 18 - 29 October 2010

Venue: Adriatico Guest House Kastler Lecture Hall

Preliminary Programme

Monday, 18 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

18 October 2010

09:00 - 13:00 --- Registration with Secretary in Office N. 5 ---

13:00 - 14:00 --- Lunch Break ---

14:00 - 17:00 Volker Bothmer / *Institute for Astrophysics, University of Goettingen, Germany*

OPENING: Introduction to the Physics of the Sun, Heliosphere and Space Weather

Tuesday, 19 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

19 October 2010

09:00 - 13:00 Giovanni Lapenta / Centre for Plasma Astrophysics, KU Leuven, Belgium

Theoretical and Numerical Physics Based Models with Focus on the Issue of Modelling Fundamental

Processes Crossing Multiple Scales (Kinetic to MHD)

13:00 - 14:00 --- Lunch Break ---

14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) David Berghmans and Daniel Seaton / Royal Observatory of Belgium, Brussels, Belgium Tracking Solar Activity with Online Facilities
17:00 - 18:30	Free Practice

Wednesday, 20 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

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09:00 - 10:50	Bernhard Kliem / University of Potsdam, Germany The Physics and Numerical Modelling of Coronal Mass Ejections
10:50 - 11:10	Coffee Break
11:10 - 13:00	William Matthaeus / University of Delaware, USA Theory of Turbulence in Solar System Plasmas: Observations of Solar Wind Turbulence and Connections to MHD Relaxation, Intermittency and Dissipation
13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) D. Berghmans and D. Seaton Downloading and Handling Solar Data from Satellites
17:00 - 18:30	Free Practice

Thursday, 21 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

21 October 2010

09:00 - 13:00	Susan McKenna-Lawlor* and Hannu Koskinen** / *Space Technology Ireland; **University of Helsinki, Finland An Overview of Space Weather Phenomena that Effect Technological Systems and Humans
13:00 - 14:00	Lunch Break
14:00 - 15:00	(Room: Adriatico Guest House Informatics Lab.) Mauro Messerotti / Astronomical Observatory of Trieste and University of Trieste, Italy G-B Instrumentation for for Solar Observations
15:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Peter Stauning / Danish Meteorological Institute, Copenhagen, Denmark G-B Instrumentation for Space Weather Observations in Geospace
17:00 - 18:30	(Room: Adriatico Guest House Informatics Lab.) Free Practice

Friday, 22 October 2010 (Room: Adriatico Guest House Kastler Lecture Hall)

22 October 2010

09:00 - 13:00 Gabor Toth / University of Michigan, Ann Arbor, USA
Adaptive Algorithms in the Space Weather Modelling Framework

13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Petra Vanlommel / Royal Observatory of Belgium, Brussels, Belgium Monitoring and Predicting SpW in the Heliosphere: Operational Services
17:00 - 18:30	(Room: Adriatico Guest House Informatics Lab.) Free Practice

Monday, 25 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

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09:00 - 10:50	Jurgen Watermann / jfwConsult, La Tetrade, Tourrettes, France Solar Wind-Magnetosphere-Ionosphere Coupling
10:50 - 11:10	Coffee Break
11:10 - 13:00	Alan Aylward / University College London, UK Coupling between the Earth's Magnetospheric, Atmospheric and Ionospheric Regions and Comprehensive Modelling of the Sun-Earth Environment
13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Norma Crosby / Belgian Institute for Space Aeronomy, Brussels, Belgium The European Space Weather Portal and SPENVIS

Tuesday, 26 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

26 October 2010

09:00 - 13:00	Jean Lilensten / Laboratoire de Planetologie, Grenoble, France The Earth's Ionosphere and Thermosphere and Ionospheres of Other Planets
13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Robert Bentley / University College London, UK The Role of Virtual Observatories in Space Weather and HELIO Use Cases
17:00 - 18:30	(Room: Adriatico Guest House Informatics Lab.) Free Practice

Wednesday, 27 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

27 October 2010

09:00 - 10:50	Ivan Kutiev / Bulgarian Academy of Science, Geophysical Institute, Sofia, Bulgaria The Earth's Plasmasphere and Topside Ionosphere
10:50 - 11:10	Coffee Break

11:10 - 13:00	Ivan Kutiev Space Weather Empirical Modelling Techniques
13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Alexi Glover / European Space Agency, Madrid, Spain Space Weather Monitoring for Space Weather Services
17:00 - 18:30	(Room: Adriatico Guest House Informatics Lab.) Free Practice

Thursday, 28 October 2010 (Room:Adriatico Guest House Kastler Lecture Hall)

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09:00 - 10:50	Sandro Radicella / ICTP, Trieste, Italy Ionospheric Research with Satellite Derived TEC
10:50 - 11:10	Coffee Break
11:10 - 13:00	Ioanna Tsagouri * and Bruno Zolesi ** / * Institute for Space Applications and Remote Sensing, Athens, Greece; ** Istituto Nazionale di Geof Space Weather Empirical Modelling Techniques
13:00 - 14:00	Lunch Break
14:00 - 17:00	(Room: Adriatico Guest House Informatics Lab.) Anna Belehaki * and Bruno Zolesi ** / * Institute for Space Applications and Remote Sensing; ** Istituto Nazionale di Geofisica, Rome, Ita Ionospheric Active Experiments and Monitoring Systems
17:00 - 18:30	(Room: Adriatico Guest House Informatics Lab.) Free Practice

Friday, 29 October 2010 (Room: Adriatico Guest House Kastler Lecture Hall)

29 October 2010

09:00 - 10:50	Esa Turunen / EISCAT Scientific Association, Kiruna, Sweden SpW Simulation Experiments on the Earth's Upper Atmosphere
10:50 - 11:10	Coffee Break
11:10 - 13:00	Mauro Messerotti Direct Effects of Solar Radio Weather
13:00 - 14:00	Lunch Break
14:00 - 15:00	Closing