SOHO 17: 10 Years of SOHO and Beyond

7-12 May 2006, Giardini Naxos, Sicily

Sunday, 7 May 2006, AM

16:00-18:00 Early Bird Check-In at Naxos Beach Resort
19:00 Welcome Reception at Naxos Beach Resort

Monday, 8 May 2006, AM

Chairs: Thompson, Mike; Di Mauro, Maria Pia

08:00 Registration at Palanaxos

09:00 Welcome Address
Flamini, Fabrizio
Agenzia Spaziale Italiana

Session 1: Solar Interior: From Exploration to Experimentation
Time: 09:05 - 12:30

09:05 Helioseismological Determination of the State of the Solar Interior p.1
Gough, Douglas
University of Cambridge

09:35 Interpreting Solar Frequencies: Methods and Techniques p.2
Basu, Sarbani
Yale University

10:05 Recent Progresses on g-mode Search p.3
Appourchaux, Thierry et al.
Institut d'Astrophysique Spatiale

10:20 Looking for Asymptotic G Modes using GOLF Aboard SoHO p.4
Garcia, Rafael A. et al.
Service d'Astrophysique CEA/Saclay

10:35 – 11:15 Coffee Break and Posters at the Palanaxos

11:15 Helioseismic Determination of Subsurface Fluid Dynamics p.5
Corbard, Thierry
Observatoire de la Cтte d'Azur, FRANCE

11:45 SOHO and Time-Distance Helioseismology p.6
Duvall, Thomas[1] et al.
NASA/Goddard Space Flight Center

12:00 Subsurface Flows and the Evolution of Solar Filaments p.7
Hindman, Bradley[1] et al.
University of Colorado

12:15 Resonant Oscillation Modes and Background in Realistic Hydrodynamical Simulations of Solar Surface Convection p.8
Straus, T.[1] et al.
INAF - Osservatorio Astronomico di Capodimonte

12:30 – 14:30 Luncheon at the Naxos Beach Hotel

Monday, 8 May 2006, PM

Chairs: Vial, Jean-Claude; Gregory, Sara

Session 2: **Magnetic Variability: From the Tachocline to the Heliosphere**
Time: **14:30 - 17:30**

14:30	Probing Solar Activity and Convection with Local Helioseismology *Gizon, Laurent* Max-Planck-Institut fuer Sonnensystemforschung,	p.9
15:00	The Solar Dynamo: What we know, what we think we know and what progress can we make. *Steven, Tobias* University of Leeds	p.10
15:30	Does visibility effect fully explain a cycle variations of coronal bright points? *Sattarov, Isroil* et al. Tashkent State Pedagogical University	p.11
15:45	The Coronal Wave Damping Problem: Mechanisms for wave damping in the solar corona *Andries, Jesse*[1] et al. KULeuven	p.12

16:00 – 16:30 Coffee Break and Posters at the Palanaxos

16:30	MHD Modeling of the Solar Corona and Inner Heliosphere *Mikic, Zoran* et al. SAIC	p.13
17:00	Magnetic variability of the electron density in the solar corona *Lamy, Philippe* et al. Laboratoire d'Astrophysique de Marseille	p.14
17:15	Heliospheric constraints on the coronal magnetic field *Zurbuchen, Thomas H* University of Michigan	p.15

Poster Session: **Dedicated Poster Session and Reception**
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Time: **17:30 - 19:30**

Tuesday, 9 May 2006, AM

Chairs: Walsh, Robert; Reale, Fabio

08:00 Registration at Palanaxos

Session 3: **Atmospheric Heating and Solar Wind Origin: MHD vs. Plasma Physics**

Time: **09:00 - 14:30**

09:00	Heating of the Magnetically Closed Corona *Klimchuk, James* Naval Research Lab	p.16
09:30	New models of the solar chromosphere and transition region determined from SUMER observations *Avrett, Eugene* Smithsonian Astrophysical Observatory	p.17
09:45	Results of the Analysis of Solar Active Regions and their Loops at Montana State *Martens, Petrus* et al. Montana State University	p.18
10:00	First VUV Sun-as-a-star spectrum compared to other cool stars *Peter, Hardi* Kiepenheuer-Institut	p.19
10:15	Damped coronal loop oscillations: time-dependent analysis *Terradas, Jaume* et al. Universitat de les Illes	p.20

10:30 – 11:15 Coffee Break and Posters at the Palanaxos

11:15	Heating of the Quiet Solar Corona *Brooks, David H.* et al. Naval Research Laboratory	p.21
11:30	Coronal heating and solar wind acceleration: SOHO observations and theoretical advances *Velli, M.* University of Florence	p.22
12:00	Plasma diagnostics of the large-scale corona with SUMER *Landi, Enrico* et al. Artep Inc.	p.23
12:15	Solar coronal-hole plasma densities and temperatures *Wilhelm, Klaus* Max-Planck-Institut fuer Sonnensystemforschung	p.24

12:30 – 14:30 Luncheon at the Naxos Beach Hotel

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Chairs: Marsch, Ekart; Auchere, Frederick

14:30 Solar Wind Forecasting from the Chromosphere p.25
Leamon, Robert et al.
L-3 Communications/ NASA GSFC

14:45 Diagnostics and Modelling of the Solar Wind Source Regions p.26
Poletto, Giannina
INAF - Arcetri Astrophysical Observatory

15:15 Coronal Hole Properties During the First Decade of UVCS/SOHO p.27
Miralles, M. P. et al.
Harvard-Smithsonian Center for Astrophysics

15:30 Properties of Polar Plumes'Plasma from Coronal Emission Modelling p.28
Raouafi, Nour-Eddine
National Solar Observatory

15:45 – 16:15 Coffee Break and Posters at the Palanaxos

16:15 Structure in the outflow of the solar wind p.29
Gabriel, Alan et al.
Institut d'Astrophysique Spatiale

16:30 Slow wind in the extended corona p.30
Abbo, Lucia et al.
INAF- Istituto Nazionale di Astrofisica

16:45 Solar Wind Heavy Ion Speed and Density Comparisons p.31
Ipavich, Fred et al.
University of Maryland

Poster Session: **Dedicated Poster Session and Reception**
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Wednesday, 10 May 2006, AM

Chairs: Strachan, Leonard; St. Cyr, Christ

08:00 Registration at Palanaxos

Session 4: **Solar Variability and its Effects on the Heliosphere and the Earth**

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09:00 Solar Luminosity Variation: Implications for Stellar and Climate Physics p.32
Foukal, Peter
Heliophysics, Inc

09:30 Helioseismic responses induced by the proton-rich flare of October, 28, 2003 p.33
Zharkova, Valentina et al.
University of Bradford

09:45 Photospheric field evolution in the source regions of coronal mass ejections p.34
Bothmer, Volker et al.
University of Goettingen

10:00 Using SOHO to Understand CME-Producing Quiet-Region Filament Eruptions p.35
Sterling, Alphonse et al.
NASA/MSFC/NSSTC

10:15 Multiscale Optical Flow For Analysing The Dynamics In Solar EUV Images. Algorithm, Calibration And First Results p.36
Hochedez, Jean-Franŋois E. et al.
Royal Observatory Belgium

10:30 – 11:00 Coffee Break and Posters at Palanaxos

11:00 An Experiment in Forecasting the Eruption of Quiescent Prominences Using EIT 304A Images p.37
Martin, Sara et al.
Helio Research

11:15 10 Years of CME Onset Studies with SOHO/CDS p.38
Bewsher, Danielle et al.
CCLRC/RAL

11:30 SOHO Contributions to Understanding CMEs p.39
Simnett, George
University of Birmingham

12:00 Paradigm Shifts Using LASCO Results p.40
Howard, Russell
Naval Research Lab

12:15 Detections of Coronal Mass Ejection Shocks with Lasco p.41
Vourlidas, Angelos
Naval Research Laboratory

12:30 – 14:00 Luncheon at the Naxos Beach Hotel

Excursion: **Excursion to Alcantara Gorges and Tour & Wine Tasting at Castiglione di Sicilia**

Time: **14:00 – 21:00 Approximately**

Thursday , 11 May 2006, AM

Chairs: Peter, Hardi; Antonucci, Ester

08:00 Registration at Palanaxos

Session 4 (con't): Solar Variability and its Effects on the Heliosphere and the Earth

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09:15	Studying Halo and partial Halo Coronal Mass Ejections through UV Spectra *Ciaravella, A* et al. INAF-Osservatorio Astronomico di Palermo	p.43
09:30	Solar Energetic Particles: Progress of Our Understanding in the SOHO Era *Klecker, Berndt* Max-Planck-Institut fȯr extraterrestrische Physik,	p.44
10:00	Progress Toward Measurements of Suprathermal Tails in Coronal Proton Velocity Distributions *Kohl, John* et al. Harvard Smithsonian CfA	p.45

10:15- 11:00 Coffee Break and Posters at Palanaxos

11:00	Particle acceleration in turbulent coronal loops: the role of intermittency *Malara, Francesco* et al. UnivarsitΓ della Calabria	p.46
11:15	Energetic Particles Measured by Ephin Instrument during the Last Solar Magnetic Field Polarlty Reversal *R.-Pacheco, Javier* et al. ASRG/UAH	p.47

Session 5: SOHO and the Solar System

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Chair: Antonucci, Ester

11:30	1000 and counting: The Remarkable SOHO Contributions to Cometary Science *Biesecker, Douglas* NOAA/SEC	p.48
12:00	Helium/hydrogen fractionation in the solar wind – how much is due to inefficient Coulomb drag? *Bochsler, Peter* et al. University of Bern	p.49
12:15	SOHO/UVCS Observation of Sungrazing Comet C/2002 S2 *Giordano, Silvio* et al. INAF - Osservatorio Astronomico di Torino	p.50

12:30 – 14:30 Luncheon at the Naxos Beach Hotel

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Chairs: Fleck, Bernhard; Gurman, Joe

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14:30	*Bonnet, R.M.*	
14:50	*Vandenbussche, F.*	
15:10	SOHO, what happened after 1999? *van Overbeek, Ton* European Space Agency	p.51
15:25	SOHO- Cleanliness in retrospect *THOMAS, Ronald* Ex-ESA	p.52
15:40	*Felici, Fabrizio*	

16:00 – 16:45 Coffee Break at the Palanaxos

16:45	SOHO - How it all began, almost 24 years ago. *Schwenn, Rainer* et al. Max-Planck-Institut fȯr Sonnensystemforschung	p.53
16:50	"Can't go sailing -- I'm SOL!" Some reminiscences about life in the early EOF *DeForest, Craig* Southwest Research Institute	p.54
16:55	How to see Northern Lights through the clouds in England *Del Zanna, Giulio* University College London	p.55
	Other contributions: M. Huber, M. Arduini, C. Holmes, D. Machi, J.-P. Olive, A. Poland, V. Domingo, A. Gabriel, P. Scerrer, R. Harrison, G. Noci, P. Brekke	

Conference Dinner:	**Villa Diodoro, Taormina**
Time:	**19:00 – 24:00 Approximately**

Friday, 12 May 2006, AM

Chairs: Spadaro, Daniele

08:00 Registration at Palanaxos

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Session 7: From SOHO to ILWS and Beyond: Visions for Solar Research from Space
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09:50	SOHO: A look back from 2025 *Gurman, Joseph B.* NASA Goddard Space Flight Center	p.58
10:10	Prospects for coronal physics *Cargill, Peter* Imperial College	p.59

10:35 – 11:05 Coffee Break and Posters at Palanaxos

11:05	Solar Microscopy: Unveiling the Sun's basic physical processes at their intrinsic scales *Solanki, Sami K.* et al. Max Planck Institute for Solar System Research	p.60
11:15	Can we finally solve the problems of "Coronal Heating " and "Solar Wind Acceleration" in the Cosmic Vision era ? *Maksimovic, M.* et al. LESIA, Observatoire de Paris	p.61
11:25	A Very High Resolution Vision for Solar Physics *Damı, Luc* Service d'Aıronomie du CNRS	p.62
11:35	Imaging UV Spectroscopy of the Corona: from UVCS/SOHO to ILWS missions *Fineschi, Silvano* et al. INAF-Osservatorio Astronomico di Torino	p.63

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P3 **CONSTRAINING THE FINE-STRUCTURE CONSTANT WITH HELIOSEISMOLOGY**
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P7 **COMPUTATIONAL ACOUSTICS IN SPHERICAL GEOMETRY: STEPS TOWARDS VALIDATING HELIOSEISMOLOGY**
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P8 **SENSITIVITY OF SOLAR F-MODE TRAVEL TIMES TO INTERNAL FLOWS.**
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P9 **GOLF: 10 YEARS OF OBSERVATION OF LOW DEGREE P-MODES**
Jiménez Reyes, Sebastián; García, R. A.; Turck-Chieze, S.[1]

P10 **THE ROLE OF MULTI CELLULAR MERIDIONAL FLOWS IN SETTING THE CYCLE PERIOD AND FIELD PARITY IN SOLAR DYNAMO MODELS**
Jouve, Laurène; Brun, A.S.

P11 **MDI AND GONG INFERENCES OF THE CHANGING SUN**
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