

## PROGRAMME OF THE WORKSHOP

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DATE/TIME	SUBJECT	SPEAKER
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Sunday, 8 September 2002 ARRIVAL of Participants

Monday, 9 September 2002

0830-0900 Registration

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### *Opening of the Workshop*

0900-0945

CONAE  
United Nations  
European Space Agency  
Government of Argentina  
University of Cordoba  
University of La Plata

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0945-1000

Break

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### *Keynote Lectures (Chairperson: H.J. Haubold, UN)*

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1000-1045	Current Perspectives of Astronomy in Argentina	M. Rovira (Argentina)
1045-1130	The New Scientific Programme of the European Space Agency	A. Gimenez (ESA)
1130-1215	The Burden and the Promise of Scientific Research in Difficult Times	L. Pyenson (USA)
1215-1300	Great Questions in Mathematics: Proof of Riemann's Hypothesis ?	M. Aslam Chaudhry (Saudi Arabia)

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1300-1400

Lunch

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### *Session: Virtual Observatories and Automated Networks: How to Use Them (Chairperson: M. Rabolli, Argentina)*

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1400-1430	ASTROVIRTEL: From Archival Research to the Astrophysical Virtual Observatory	R. Albrecht (ESO)
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1430-1500	Astrometry with Virtual Observatories	C. Lopez (OFA)
1500-1530	Archives, Databases, and the Emerging Virtual Observatories	D. Golombek (USA)

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**1530-1545** **Break**

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*Session continued*  
(*Chairperson: D. Minniti, Chile*)

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1545-1600	Virtual Observations Through University Programmes	M.-J. Deutsch (Luxembourg)
1600-1620	A Network of Amateur and Professional NEO Telescopes in South America	G. Tancredi (Uruguay)

Special Presentation and Demonstration:

1620-1720	Access to the Historical and Current Astronomical Literature Through the NASA Astrophysics Data System	G. Eichhorn (USA)
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**1930-2200** **WORKING GROUP A: Education Programmes in Astronomy and Astrophysics (Chairperson: A. Sanchez, Uruguay)**

F. Zaratti (Bolivia): Astrophysics for University Physics Courses: Wentzel's Method of Astrophysics Teaching

A.P. Willmore (COSPAR): Widening Expertise in Space Science in Developing Countries

H.J. Haubold (UN): Education Curricula Space Science and Technology Education

**Tuesday, 10 September 2002**

***Session: Great Eyes of Astronomy – Pathways to Evolution  
(Chairperson: G. Eichhorn, USA)***

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0830-0915	The Scientific Impact of the Hubble Space Telescope	F.D. Macchetto (USA/ESA)
0915-0945	Centaurus A: VLT Views of the Nearest Giant Elliptical Galaxy	D. Minniti (Chile)
0945-1015	Auger Observatory in Argentina	A. Etchegoyen (CNEA/CONICET)

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**1015-1030** **Break**

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***Session continued  
(Chairperson: M.E. Machado, Argentina)***

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1030-1050	Cosmic Ray Muon Observation at Southern Space Observatory – SSO (29deg S, 53deg W)	M.R. da Silva (Brazil)
1050-1110	The Gemini Observatory	H.O. Levato (CASLEO)
1110-1130	Mars Advanced Studies: The Next Generation Orbiters	M.-J. Deutsch (USA)

Special Presentation and Demonstration:

1130-1230	A Concurrent Design Capability for the Development of International Space Missions	R.E. Oberto (USA)
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**1230-1330** **Lunch**

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***Session: World Space Observatory  
(Chairperson: R. Casas-Miranda, Colombia/Germany)***

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1330-1415	World Space Observatory: Status Report	W. Wamsteker (ESA)
1415-1435	Argentine Participation in WSO/UV	J. Sahade (Argentina)

1435-1455	How Central American Countries Could be Part of the WSO/UV Project?	M.C.P. de Carias (Honduras)
1455-1515	The WSO/UV and Space Science in South Africa	P. Martinez (South Africa)

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**1515-1530**

**Break**

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***Session: Major Statistical Studies as Observatories and Use of Data from Different Observatories to Study Particular Regions  
(Chairperson: F.R. Colomb, CONAE)***

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1530-1550	Statistical Properties of Galaxy Systems	D. Garcia Lambas (IATE)
1550-1610	On Halo and Galaxy Bias	R. Casas-Miranda (Colombia/Germany)
1610-1630	The Environment of Active Objects in the Nearby	G.V. Coldwell Lloveras (Argentina)
1630-1650	Starbursts and AGNs in Quasar Neighbourhood	G.V. Coldwell Lloveras (Argentina)
1650-1710	Are Some Gamma Ray Bursts Actually Associated with Blueshifting Galaxies ?	D. Basu (Canada/Trinidad)

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**1930-2200      WORKING GROUP B: Poster Session  
(Chairperson: M. Rabolli, Argentina)**

**List of Posters (to be completed at the beginning of the Workshop):**

D. Galadi-Enriquez (Spain): The Network of Robotic Telescopes of Centro de Astrobiología – First Months of Operation

Wednesday, 11 September 2002

*Session: Astronomical Telescope Facilities*  
(Chairperson: A. Gimenez, ESA)

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0830-0850	CCD Photometry of KZ Hya Using the 45-cm Telescope in Paraguay	F.D. Doncel (Paraguay) T. Noguchi (Japan)
0850-0910	A NEO Survey in the Southern Hemisphere	G. Tancredi (Uruguay)
0910-0930	Observational Results with the 45-cm Telescope at Bosscha Observatory	H.L. Malasan (Indonesia)
0930-0950	Observing at the Central American Suyapa Astronomical Observatory	M.C.P. de Carias (Honduras)

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**0950-1010** **Break**

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*Session continued*  
(Chairperson: P. Willmore, COSPAR)

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1010-1030	Photometry UBV of the V645 Her Delta Scuti Star	R. Carlos (Peru)
1030-1050	Current Status of Carl Sagan Observatory in Mexico	A. Sanchez-Ibarra (Mexico)
1050-1110	Observing Sites in NW Argentina	J. Recabarren H. Muriel (IATE)

**1110-1210** **Working Group C: Astronomical Telescope Facilities**  
(Chairperson: M.C.P. de Carias, Honduras)

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**1210-1310** **Lunch**

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## **VISITS**

1400 "Mario Gulich" Institute of Advanced Space Studies (Chairperson: J. C. Caretti)

1600 Teofilo Tabanera Space Centre (Chairperson: J. C. Caretti)

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2000 Bosque Alegre Astrophysical Station from the Cordoba National University  
Astronomical Observatory



**Thursday, 12 September 2002**

***Session Astrophysical Applications of Ideas from Nonextensive Statistical Mechanics and the Sun***  
***(Chairperson: R. Albrecht, ESO)***

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0830-0915	Nonextensive Statistical Mechanics with Emphasis on Astrophysical Aspects	C. Tsallis (Brazil)
0915-0945	Applications of Nonextensive Concepts that Include Fisher's Estimation Theory	A. Plastino (Argentina)
0945-1015	Foundations of Nonextensive Statistical Mechanics and its Astrophysical Applications	A.R. Plastino (Argentina)

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**1015-1030** **Break**

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***Session continued***  
***(Chairperson: A. Plastino, Argentina)***

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1030-1050	Segmentation and Nonextensivity	W. Lamberti (Argentina)
1050-1110	On Fractional Kinetic Equations	A.M. Mathai (India/Canada)
1110-1130	Extended Incomplete Gamma Functions with Applications	M.AsamChaudhry (Saudi Arabia)
1130-1150	Beyond the Solar Neutrino Problem	H.J. Haubold (UN)

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**1150-1250** **Lunch**

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1250-1310	A Perturbed Tri-polytropic Model of the Sun	G. Pinzon (Brazil)
1310-1330	Time-dependent Stellar Interior Equations	J.F. Doorish (USA)
1330-1350	An Index of Solar Activity: The Solar Decay Rate	A.P. Buccino (Argentina)
1350-1410	Energetic Phenomena on the Sun	M.E. Machado (CONAE)

1410-1430

The Magnetic Helicity Budget of Solar Active  
Regions: From the Photosphere to the Magnetic  
Cloud

C.H. Mandrini  
(IAFE)

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**1930-2200**

**WORKING GROUP D: New Horizons in Solar Physics  
(Chairperson: G. Pinzon, Brazil)**



Friday, 13 September 2002

*Session Planetology and Solar Terrestrial Interactions*  
(Chairperson: P. Martinez, South Africa)

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0830--0900	A New Ionosphere Monitoring Technology Based on GPS Observations	C. Brunini (FCAGLP)
0900-0930	The ARGO Project	C.N. Kozameh (FAMAF)
0930-0950	Dynamical Evolution of Exoplanets in Resonances	A. Sanchez (Uruguay)
0950-1010	Astronomical Factors Manifestation on Climate Parameters on a Tropical Region	O. Alvarez (Cuba)

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**1010-1040** **Break**

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*Session Observations and Recommendations*  
(Chairperson: W. Wamsteker, ESA)

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1040-1230

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**1230-1330** **Lunch**

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**OBSERVATIONS AND RECOMMENDATIONS**

1330-1600 **Closing of the Workshop**  
*University of La Plata*  
*University of Cordoba*  
*Government of Argentina*  
*China 2003*  
*European Space Agency*  
*United Nations*  
*CONAE*

Saturday, 14 September 2002 DEPARTURE of Participants