

Mapping Mars at Global to Human Scales	916
<i>Brent A. Archinal, Randolph L. Kirk, Elpitha Howington-Kraus, Mark R. Rosiek, Laurence A. Soderblom, and Ella M. Lee</i>	
Planetary Exploration and Archaeology: Heritage Conservation	917
<i>John B. Campbell</i>	
Numerical Simulation of the Jovian Wind Band as a Convective Phenomenon	919
<i>Kwing L. Chan and Hans G. Mayr</i>	
Charon/Pluto Light Ratio	920
<i>K. B. Clancy, J. L. Elliot, and M. J. Person</i>	
Hot Hydrogen in the Jovian Corona	921
<i>C. Emerich, L. Ben Jaffel, J. T. Clarke, and G. Ballester</i>	
Paradox of Flows on Mars	922
<i>L. V. Ksanfomality</i>	
ASTROD I: Mission Concept and Venus Flybys	925
<i>Guangyu Li, Wei-Tou Ni, and Chien-Jen Tang</i>	
Orbital Evolution of the Kuiper Belt	926
<i>Charles Morgan and Andrew Prentice</i>	
Origin and Distribution of Water amongst the Inner Planets	927
<i>Andrew J. R. Prentice</i>	
Winds in Venus' Lower Mesosphere	928
<i>Thomas Widemann and Emmanuel Lellouch</i>	

SPS 2. ASTRONOMY IN ANTARCTICA

Chairperson: *M. Burton*

Editor: *M. Burton*

The Potential for Astronomy in Antarctica	931
<i>M. G. Burton</i>	
Particle Astronomy from Antarctica	933
<i>Per Olof Hulth</i>	
The 23 November 2003 Total Solar Eclipse in Antarctica	935
<i>Jay M. Pasachoff</i>	
Site Testing at Dome C—Cloud Statistics from the ICECAM Experiment	936
<i>Michael C. B. Ashley, Michael G. Burton, Paolo G. Calisse, Andre Phillips, and John W. V. Storey</i>	
Millimetric Site Testing at Dome C: Results and Plans	939
<i>Luca Valenziano, Giorgio Dall'Oglio, Andrea Graziani, Lorenzo Martinis, Gabriella Pizzo, and Lucia Sabbatini</i>	
Results from the South Pole InfraRed EXplorer Telescope	941
<i>J. M. Rathborne and M. G. Burton</i>	

The AST/RO Survey of the Galactic Center Region	949
<i>Antony A. Stark</i>	
Antarctic Cosmic Ray Astronomy	951
<i>Marc Duldig</i>	
IceCube: A Kilometer-Scale Neutrino Observatory at the South Pole . .	953
<i>Francis Halzen</i>	
Beyond Dome C	955
<i>J. W. V. Storey, M. C. B. Ashley, M. G. Burton, and J. S. Lawrence</i>	
ACMSA: Antarctic Centre for Millimetre and Submillimetre Astrophysics	957
<i>Giorgio Sironi</i>	
The Case for a 30 m Diameter Submillimeter Telescope on the Antarctic Plateau	958
<i>Antony A. Stark</i>	
Extremely Large Telescopes on the Antarctic Plateau	960
<i>J. S. Lawrence</i>	
A Large Reflective Schmidt Telescope for Antarctica	962
<i>Will Saunders and Andrew McGrath</i>	
Adaptive Optics and Interferometry on the Antarctic Plateau	964
<i>James P. Lloyd</i>	
The Antarctic Planet Interferometer	966
<i>Mark R. Swain</i>	
High Angular Resolution Mid-IR Astronomy at Concordia	968
<i>Marco Ferrari-Toniolo</i>	
An AST/RO survey of the Coalsack	969
<i>Wilfred Walsh and Kecheng Xiao</i>	
Helioseismology from South Pole: Past, Present, and Future	970
<i>Stuart M. Jefferies</i>	
CO 2→1 Mapping of WR16 with AST/RO	971
<i>N. F. H. Tothill, A. P. Marston, C. L. Martin, and K. Leppik</i>	
History of Astrophysics in Antarctica—A Brief Overview	972
<i>Balthasar T. Indermuehle, Michael G. Burton, and Sarah T. Maddison</i>	
CMB Observations from the Antarctic Plateau	973
<i>G. Sironi, G. Boella, M. Gervasi, A. Passerini, A. Tartari, and M. Zannoni</i>	
Earth as an Extrasolar Planet: South Pole Advantages	974
<i>Wesley A. Traub, Antony A. Stark, and Kenneth W. Jucks</i>	
The Explorer of Diffuse Galactic Emission (EDGE)	975
<i>R. F. Silverberg, E. S. Cheng, D. A. Cottingham, D. J. Fixsen, L. Knox, S. S. Meyer, P. T. Timbie, and G. W. Wilson</i>	

Compact Wide-Field Astronomical Telescopes for Dome C	976
<i>Roberto F. Viotti and the TRT team</i>	

FTS Opacity Measurements of the South Pole Submillimeter Sky	977
<i>Richard A. Chamberlin</i>	

SPS 3. A NEW CLASSIFICATION SCHEME FOR DOUBLE STARS

Chairpersons: *W. I. Hartkopf and B. D. Mason*

Editors: *B. D. Mason and W. I. Hartkopf*

An Introduction to the Nomenclature Problem	981
<i>Brian D. Mason and William I. Hartkopf</i>	

Addressing Confusion in Double Star Nomenclature: The Washington Multiplicity Catalog	985
<i>William I. Hartkopf and Brian D. Mason</i>	

Working Group on Designations and Special Session 3	993
<i>Helene Dickel and Marion Schmitz</i>	

Designation of Multiple-star Components	996
<i>Andrei Tokovinin</i>	

Dynamic versus Static Designation	1002
<i>Dimitri Pourbaix</i>	

Nomenclature for Multiple Systems Containing Close Binaries	1004
<i>C. D. Scarfe</i>	

The Viewpoint from Commission 40	1010
<i>Richard N. Manchester</i>	

Nomenclature Scheme In Use By The WGESP and a Current List of Extrasolar Planets	1012
<i>Jill C. Tarter</i>	

SPS 3: Epilog	1015
<i>Brian D. Mason and William I. Hartkopf</i>	

SPS 4. EFFECTIVE TEACHING AND LEARNING OF ASTRONOMY

Chairperson: *J. R. Percy*

Editor: *J. R. Percy*

A Short Overview of Astronomical Education Carried Out by the International Astronomical Union (IAU)	1021
<i>Syuzo Isobe</i>	

Why Astronomy is Useful and Should be Included in the School Curriculum	1024
<i>John R. Percy</i>	