

Joint Discussion 12: “Highlights of Planetary Exploration from Space and from Earth”

Scientific Organizing Committee

A. Albee (USA), M. Belton (USA), B. Bézard (France, *Chair*), A. Coradini (Italy), C. de Bergh (France), T. Johnson (USA), M. Marov (Russia), K. Noll (USA), T. Owen (USA), J. Spencer (USA, *co-Chair*), N. Thomas (Germany), & R. Zurek (USA)

Oral Presentations

- GIANT PLANETS’ ATMOSPHERES Chairperson: B. Conrath
 - Composition and cloud structure of Jupiter’s deep atmosphere
S. Atreya (USA)
 - Galileo: close-up views of Jupiter’s dynamic atmosphere
A. Vasavada (USA)
 - Jupiter’s aurora: solar wind and rotational influences[†]
H. Waite (USA)
 - Spectroscopy of planetary atmospheres and surfaces with ISO
B. Bézard (France)

- JUPITER’S SATELLITES Chairperson: D. Cruikshank
 - Volcanism on Io
J. Spencer (USA)
 - NIMS/Galileo NIMS observations of Io
A. Davies (USA)
 - Hubble Space Telescope observations of Galilean satellites[†]
M. McGrath (USA)
 - Geology and Composition of the Galilean icy satellites
R. Pappalardo (USA)

- TITAN Chairperson: C. de Bergh
 - The surface and lower atmosphere of Titan from HST observations[†]
P. Smith (USA)
 - First images of Titan at 1.3 micron with the adaptive optics PUEO system at the CFHT
A. Coustenis (France)

The surface of Titan from adaptive optics observations[†]

S. G. Gibbard (USA)

Titan's atmosphere (clouds and composition): new results[†]

C. Griffith (USA)

• MARS

Chairperson: P. Smith

The Mars Global Surveyor mission: description, status, and significant results

A. Albee (USA)

Martian surface composition as determined by the MGS thermal emission spectrometer[†]

S. Ruff (USA)

Advances in understanding of the Martian climate[†]

M. Richardson (USA)

MGS TES results: atmospheric structure, aerosols, and dynamics

B. Conrath (USA)

Missions to Phobos and other minor bodies

M. Marov (Russia)

Future exploration of Mars: an exobiological perspective[‡]

C. T. Pillinger (UK)

Poster Papers

Base de Données d'Images Planétaires (BDIP): one century of planetary images: 1870–1977

P. Drossart et al. (France)

A single resolved ground-based observation of Mercury

L. V. Ksanfomality (Russia)

Modelling of the coherent backscattering opposition effect: comparison to planetary phase curves

S. Kaasalainen et al. (Finland)

Variable and constant features on Titan from HST[†]

R. D. Lorenz et al. (USA)

A classical cycle of activity in the North Tropical Region of Jupiter, 1996–1999[†]

J. Rogers et al. (UK)

Beagle 2: the exobiology lander on ESA's Mars Express mission

M. R. Sims et al. (UK)

[†] Only abstract is available

[‡] No abstract available