
AGU Planetary Sciences Section NEWSLETTER #19

February 12, 2007

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1) Section sessions at Spring Joint Assembly

The 2007 Joint Assembly will be held May 21-25 in Acapulco, Mexico. Six special sessions have been approved for the Planetary Sciences section for this meeting, and the section is co-sponsoring several additional sessions (see below). Abstracts are due on **March 1!**

P01: Planetary Sciences General Contributions

Convener: Rossman P. Irwin, III, irwinr@si.edu

Description: This session provides the opportunity for contributions that fall within the broad spectrum of Planetary Sciences.

P02: Analog Studies Related to Planetary Surface Processes

Conveners: James R. Zimbelman, zimbelmanj@si.edu, and Robert Craddock, craddockr@si.edu

Description: An abundance of new data from planetary spacecraft is revealing features both similar and dissimilar to geomorphic features on Earth. This session will highlight recent advances in studies of features on Earth as analogs for processes inferred to be (or have been) active on other planets. Example processes include (but are not limited to) volcanism, fluvial hydrology, aeolian deposition and erosion, tectonism, glacial and periglacial processes, and impact cratering.

P03: Geochemistry of Solar System Bodies

Conveners: Harry Y McSween, Jr, mcsween@utk.edu, and G Jeffrey Taylor, gjtaylor@higp.hawaii.edu

Description: Geochemical analyses of planets and small bodies (asteroids and comets) have been accomplished by remote sensing measurements and, in some cases, analyses of samples. This session will consider how understanding of the chemical compositions of extraterrestrial

bodies has advanced and how geochemistry can be used to understand the origin and evolution of planets.

P04: Icy Moons

Conveners: Candice Hansen, candice.j.hansen@jpl.nasa.gov, Krishan Khurana, kkhurana@igpp.ucla.edu, and Geraint Jones, jones@linmpi.mpg.de

Description: The broad diversity of outer planet satellites has been brought into sharp focus by the richness of the new Cassini data sets. From equatorial mountain ridges encircling Iapetus, to geysers on Enceladus, to the strange surface of Hyperion, we continue to expand our understanding of the traits of surprisingly different worlds first divulged by the Voyager and Galileo missions. This session will be devoted to exploring the similarities and differences of the outer moons of the solar system and looking for trends that may be indicative of common processes or diverse origins. Contributions that explore the relationship of the moons to their magnetospheric environment (e.g., tenuous sputtered atmospheres, or mass-loading of the Saturn system by Enceladus and Dione) are included. Contributed papers covering Jovian, Uranian and Neptunian moons are welcome in addition to the Saturnian satellites. Submissions that investigate the influence of tidal energy, impact histories, interior rock fraction, moon/plasma interactions, etc., on the ultimate development of the moons as the solar system evolved are particularly welcome.

P05: Titan: Presentation and Interpretation of Cassini Results, and Results from Telescopes on the Ground or in Earth Orbit

Conveners: Robert M. Nelson, robert.m.nelson@jpl.nasa.gov, Dennis L. Matson, dennis.l.matson@jpl.nasa.gov, and Jonathan I. Lunine, jlunine@lpl.arizona.edu

Description: This session will bring together researchers who are providing new observational results of Titan from the Cassini spacecraft, from Earth orbit, or from the ground. Theoretical interpretations of recent results are also encouraged.

P06: The Surface of Mars: Results from Current Orbital and Landed Missions

Convener: Rossman Philip Irwin, III, irwinr@si.edu, and W. Bruce Banerdt, bruce.banerdt@jpl.nasa.gov

Description: The four orbiters and two rovers currently operating at Mars have provided a greater volume and diversity of data than all previous Mars missions combined. The greater spatial and spectral resolutions of active instruments allow investigations at meter to submeter spatial scales, revealing a significant variability in geologic processes and environments with space and time. This session will focus on new results from these missions related to the surface of Mars.

CO-SPONSORED SESSIONS

G09: Earth Rotation/Polar Motion and dynamic Earth processes

GP06: New Discoveries in Magnetic and Gravity Anomaly Interpretation Methodologies and Their Innovative Application for Geologic, Environmental, Exploration and Planetary Scale Potential-field Data

IN07: The Role of Visualization in Addressing Complex Geophysical Problems

NG04: Complex Systems and Nonlinear Geophysics: New Developments

PP05: New Insights into Younger Dryas Climatic Instability, Mass Extinction, the Clovis People, and Extraterrestrial Impacts

SA06: Applications of high-power ionospheric modification to studies of plasma physics and magnetosphere-ionosphere coupling

SH04: Solar System Antimatter

SM05: Magnetospheres of the Inner Planets

T10: The Cretaceous/Tertiary (K/T) boundary in the Gulf of Mexico and the Caribbean: new assessments from the ICDP YAX-I drill-core and beyond

V06: Understanding Volcano-Ice Interactions: Integration of Field, Remote Sensing, and Modeling Approaches

V15: Chicxulub Crater, Mexico: Petrology and Geochemistry of Impactites at Peak-Ring Craters

Full meeting information can be found at: <http://www.agu.org/meetings/ja07/>

2) 2007 AGU medal nominations due March 15

The Medal nomination deadline is 15 March 2007. Quality nominations for deserving candidates are critical to the awards process. This is also an opportunity to nominate a colleague for recognition of a lifetime of outstanding contributions. Information on the Honors Program can be found at: www.agu.org/inside/awardnom.html. For questions, contact abroadhurst@agu.org or call 1-202-777-7502. Note that nomination packages can now be submitted electronically using the on-line submission form. Medals that can be presented in 2007 are:

Bowie - for outstanding contributions to fundamental geophysics and for unselfish cooperation in research.

Macelwane - for significant contributions to the geophysical sciences by an outstanding young scientist. Recipients must be less than 36 years old on 1 January of the year of presentation.

Fleming - for original research and technical leadership in geomagnetism, atmospheric electricity, aeronomy, space physics, and related sciences.

Ewing - for significant and original contribution to the scientific understanding of the processes in the ocean; the advancement of oceanographic engineering technology and instrumentation; or outstanding service to the marine sciences.

Horton - for outstanding contributions to hydrology.

Hess - for outstanding achievements in research in the constitution and evolution of Earth and other planets.

Revelle - for outstanding contributions in atmospheric sciences, atmosphere-ocean coupling, atmosphere-land coupling, biogeochemical cycles, climate, or related aspects of the Earth system.

Lehmann - for outstanding contributions to the understanding of structure, composition, and dynamics of the Earth's mantle and core.

Remember, 15 March 2007 is the deadline! The URL for information about submitting nominations is: <http://www.agu.org/inside/awardnom.html>.

3) 5th International Planetary Probe Workshop

On June 25 - 29 the Fifth International Planetary Probe Workshop will be held in Bordeaux, France, and will be preceded by a two-day short course. The focus of IPPW-5 will be on out planet probe missions, concepts for probe and aerial platform missions to Mars, Venus, and Titan, and technologies for the extreme environments experienced in entry, descent, and operations at these targets. The workshop will be preceded by a two-day short course about controlled landing on planetary surfaces. Information about the workshop is available at www.rssd.esa.int/SM/IPPW, or via email at ippw-5@rssd.esa.int. Questions can also be directed to David Atkinson at Atkinson@ece.uidaho.edu.

4) New Editor of JGR-Planets

Greetings from your new editor of JGR-Planets, Bob Carlson. Julie Moses has completed her tenure as Editor of JGR-Planets and she greatly deserves our thanks for her excellent guidance and editorial leadership over the past four years. She was assisted by her Associate Editors, Vicky Hamilton, Steve Hauk, George McGill, Francis Nimmo, and Jeff Plescia, who also

deserve our gratitude for their diligent and dedicated efforts that are too often unrecognized. I am pleased to announce that Francis and Jeff have agreed to stay on.

I hope to follow Julie's example by continuing to produce a high-quality journal, and will endeavor to increase the coverage of comets, asteroids, satellites, as well as all of the planets (all ten by my count!). We also want to increase the number of review articles, and I want to expand the use of Brief Reports. I solicit your comments for improving the Journal and the publication process, and your suggestions (or volunteering) for review articles and Associate Editorships. Please contact me at Robert.W.Carlson@jpl.nasa.gov.

5) Journals not listed in ADS

The following item comes from Mailing #06-34 (1/19/07) of the Division of Planetary Sciences (DPS). The issue is one that should be of concern to many within our section.

ICARUS/JGR/GRL CITATIONS NOT IN ADS

Anyone using the "citation" option of the Astrophysical Data System (ADS) to find where a given article has been cited should be aware that ADS citation statistics do not include articles cited in current volumes of Icarus or AGU journals such as JGR and GRL. This arises because neither Elsevier nor AGU provides reference lists from their journals to the ADS. Because ADS is increasingly used as a tool for checking citations for purposes such as promotion reviews or telescope time allocation decisions, this puts those of us whose papers are referenced in Icarus, JGR, or GRL (primarily the planetary community, of course) at a potential disadvantage. The DPS committee is investigating this issue with the publishers, with the hope of improving the situation.

Guy Consolmagno, DPS Chair

John Spencer, DPS Secretary (spencer@boulder.swri.edu)

6) NAC Planetary Science Subcommittee meeting on February 26

The next meeting of the NASA Advisory Council (NAC) Planetary Science Subcommittee (PSS) will be in Tempe, Arizona, on Monday, 26 February. The venue and timing were chosen to precede the NASA/NAC Workshop on Science Associated with the Lunar Exploration Architecture, to take place at the same location for the remainder of that week. The other four NAC Science Committee subcommittees will also be meeting in Tempe on that same day. The preliminary agenda for the PSS meeting follows. All PSS meetings are open to the community and the public, and we are always interested to hear from our colleagues about their concerns and suggestions. Please let me or another PSS member know if you wish to attend and speak briefly to the subcommittee. Sean Solomon <scs@dtm.ciw.edu>

Planetary Science Subcommittee Meeting, February 26, 2007, Fiesta Inn Resort, 2100 South Priest Dr., Tempe, AZ 85282

26 February (8:00 AM - 6:00 PM)

8:00 Welcome & Administrative Matters Sean Solomon, Michael Meyer

8:15 Planetary Science Division Update Jim Green

Program overview

Overview of Discovery selections

Outcome of divisional R&A retreat

Update on NEOO transition

Update on integration of DSN into SOMD

Effects of possible NSF shutdown of Arecibo

Outcome of NEO Analysis of Alternatives

Impact of new SSE Roadmap

FY07 and FY08 budget outlook

Overview of outer solar system concept studies.

PSD responses to PSS & NAC recommendations

9:45 Break

10:00 Mars Exploration Program Update Doug McCuiston

Program overview including discussion of budget situation

Overview of Mars Scout selections

Current planning for 2013 launch opportunity

Analysis of loss of MGS: causes and effects

11:00 Discussion Sean Solomon

12:00 Lunch

1:00 Analysis Group Reports

VExAG Janet Luhmann

LEAG Clive Neal

MEPAG Ray Arvidson

OPAG Fran Bagenal

CAPTEM Chip Shearer

FEAT Art Snoke

3:30 Presentation by NASA Administrator

4:30 Discussion and Preparation of Recommendations Sean Solomon

6:00 Adjourn

For future newsletter items please contact: Section Secretary Jim Zimbelman,
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