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## AGU Planetary Sciences Section NEWSLETTER #34

10 November, 2009

- 1) Planetary Science Sessions at Fall Meeting
- 2) Register for Planetary Sciences Section Reception
- 3) Workshop for Geomorphology Education at Fall AGU
- 4) NASA Planetary Science Subcommittee Meeting Dec. 3-4
- 5) Planetary Science Decadal Survey Steering Group Meeting Nov. 16-18
- 6) AGU Voluntary Contribution Campaign

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### 1) Planetary Science Sessions at Fall Meeting

We have a very full schedule of planetary-themed sessions at the Fall AGU. And remember, to make the meeting “greener” this year AGU has moved away from the detailed paper schedules. Kiosks with computers and printers will be available at the meeting to print schedules, but it is strongly recommended that before the meeting you visit the AGU web site (<http://www.agu.org/meetings/fm09/>) and put together a personalized schedule for the meeting.

Below is a summary list of planetary-themed sessions for the Fall 2008 AGU meeting. In addition to the “P” sessions, I have included some (but probably not all) Union sessions, as well as special lectures, that may be of particular interest for Planetary Science. Be sure to check the online program for other sessions that are jointly sponsored by the Planetary Sciences section.

Note in particular the Friday sessions on “Recent Results in Planetary Science and Their Impact on Future Science and Mission Priorities”. These sessions are built around the ongoing Decadal Survey, and will include updates on the process and the opportunity to interact with Decadal Survey committee members.

#### Monday Oral:

- P11D. Mars Radar Investigations: Observations, Supporting Theoretical, Field, and Lab Work, and Future Opportunities I
- P12A. A Detailed Look at Alteration Processes on Mars I
- P12B. Early Solar System
- P13C. A Detailed Look at Alteration Processes on Mars II
- P13D. Planetary Plasma Interactions and Atmospheric Escape II
- P14A. Organics in Meteorites and Dust Particles: Composition, Distribution, Formation, and Isotopic Anomalies II
- P14B. Planetary Plasma Interactions and Atmospheric Escape III
- P14C. Whipple Lecture – J.-P. Bibring, Mars Exploration: Bridging Our Past and Future
- P14D. The July 2009 Impact on Jupiter

Monday Posters:

- P11A. Organics in Meteorites and Dust Particles: Composition, Distribution, Formation, and Isotopic Anomalies I Posters
- P11B. Planetary Plasma Interactions and Atmospheric Escape I Posters
- P11C. Small Bodies and Meteorites Posters
- P13A. A Detailed Look at Alteration Processes on Mars III Posters
- P13B. Mars Radar Investigations: Observations, Supporting Theoretical, Field, and Lab Work, and Future Opportunities II Posters

Tuesday Oral:

- U21C. Lunar Reconnaissance Orbiter/LCROSS: New Insights Into the Moon I
- U22A. Lunar Reconnaissance Orbiter/LCROSS: New Insights Into the Moon II
- P21C. Mars Geology and Remote Sensing
- P22A. Mars Gullies, Deformation, and Geophysics
- P23D. MESSENGER's Third Flyby of Mercury II
- P23E. Physics and Chemistry of Ices: From the Laboratory to the Planetary Scale II
- P24A. MESSENGER's Third Flyby of Mercury III

Tuesday Posters:

- P21A. MESSENGER's Third Flyby of Mercury I Posters
- P21B. Physics and Chemistry of Ices: From the Laboratory to the Planetary Scale I Posters
- P23A. Mars Posters
- P23B. Mineralogy of the Lunar Crust: Results From the Moon Mineralogy Mapper I Posters
- P23C. Return to the Moon: Latest Science Results I Posters

Wednesday Oral:

- P31D. Exploring Venus I
- P31E. Return to the Moon: Latest Science Results II: Lunar Missions
- P32A. Return to the Moon: Latest Science Results III: The Lunar Environment
- P32B. Sagan Lecture – T. Hoehler, Life at the Common Denominator: Mechanistic and Quantitative Biology for the Earth and Space Sciences
- P32C. Outer Planets I
- P33C. Astrobiology and Society: Challenges and Opportunities
- P33D. Return to the Moon: Latest Science Results IV: Lunar Geology and Geophysics
- P34A. Mineralogy of the Lunar Crust: Results From the Moon Mineralogy Mapper II

Wednesday Posters:

- U31A. Lunar Reconnaissance Orbiter/LCROSS: New Insights Into the Moon III Posters
- U31B. Lunar Reconnaissance Orbiter/LCROSS: New Insights Into the Moon IV Posters
- P31A. Modeling Planetary Dynamics I Posters
- P31B. Planetary Cores and Subsurface Ocean Dynamics Driven by Mechanical Forcings I Posters
- P31C. Planetary Magnetism, Core Dynamics, and Dynamo Mechanisms: Bridging the

Gap Between Observations and Models, Revisited I Posters

P33A. Exploring Venus II Posters

P33B. Outer Planets II Posters

Thursday Oral:

P41A. Modeling Planetary Dynamics II

P41B. Potential Biomarkers on Mars: Detection, Characterization, and Earth Analogue Systems I

P41C. Shoemaker Lecture – S. W. Kieffer, Enceladus: Oasis or Ice Ball?

P41D. Focus on Enceladus I

P42A. Focus on Enceladus II

P42B. Modeling Planetary Dynamics III

P43E. Planetary Magnetism, Core Dynamics, and Dynamo Mechanisms: Bridging the Gap Between Observations and Models, Revisited II

P43F. Saturn's Family of Moons I

P44A. Planetary Cores and Subsurface Ocean Dynamics Driven by Mechanical Forcings II

Thursday Posters:

P43A. Planetary Missions and Instruments Posters

P43B. Planetary Sciences General Contributions Posters

P43C. Potential Biomarkers on Mars: Detection, Characterization, and Earth Analogue Systems II Posters

P43D. Recent Results in Planetary Science and Their Impact on Future Science and Mission Priorities I Posters

Friday Oral:

P51H. Recent Results in Planetary Science and Their Impact on Future Science and Mission Priorities II

P52A. Recent Results in Planetary Science and Their Impact on Future Science and Mission Priorities III

P53A. The Atmosphere of Mars: New Findings From Modeling and Observations II

P53B. The Galilean Satellites: 400 Years of Discovery II

P53C. Time of Day at Saturn: Bulk Rotation, Atmospheric, and Plasmaspheric Motion II

P54A. Planetary Rings: Theory and Observation II

P54B. The Atmosphere of Mars: New Findings From Modeling and Observations III

P54C. Titan and Lakes: Geography, Limnology, and Astrobiological Potential II

Friday Posters:

P51A. Focus on Enceladus III Posters

P51B. Planetary Rings: Theory and Observation I Posters

P51C. Saturn's Family of Moons II Posters

P51D. The Atmosphere of Mars: New Findings From Modeling and Observations I Posters

P51E. The Galilean Satellites: 400 Years of Discovery I Posters

P51F. Time of Day at Saturn: Bulk Rotation, Atmospheric, and Plasmaspheric Motion I

Posters

P51G. Titan and Lakes: Geography, Limnology, and Astrobiological Potential I Posters

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## **2) Register Today for Planetary Sciences Section Reception**

The Planetary Sciences section reception will be held Tuesday evening, December 15, from 1900h–2200h at Johnny Foleys Irish House, 243 O'Farrell St, San Francisco. The cost is \$25 for professional members and \$10 for students. Price includes two drinks and heavy hors d'oeuvres. This is a real bargain, thanks to subsidies from the AGU and section funds.

**Important! You must register for the reception online with your preregistration before you come to the meeting!**

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## **3) Workshop for Geomorphology Education at Fall AGU**

With support of the NSF, we are seeking help with a new education project in geomorphology, the study of Earth's (and other planet's) dynamic surfaces. Core to the project are on-line resources, in particular, Vignettes -- short (750-1000 word) case studies. We are working with the community (faculty, professionals, and graduate students) to build a library of several hundred of these case studies, which live in a free, open-source archive. We need the community's help to create these Vignettes and to make them as wide-ranging in subject area and location as possible. You can see more than 70 initial examples by clicking on the "See All the Vignettes" link on the left navigation bar at: <http://www.uvm.edu/~geomorph/textbook/>.

On Thursday, December 17, from 6-10 pm at AGU, we'll be running an after-dinner workshop to peer-review Vignettes. Prior to December 4, workshop participants will need to upload two DRAFT Vignettes via the project website. Thanks to NSF, we can pay you a US \$250 honorarium for contributing two Vignettes and spending several hours with us doing peer reviews of others' Vignettes.

If this project is of interest to you, please get back to Christine Massey ([christine.massey@uvm.edu](mailto:christine.massey@uvm.edu)) ASAP using the form [http://www.uvm.edu/~geomorph/textbook/AGU\\_flier.pdf](http://www.uvm.edu/~geomorph/textbook/AGU_flier.pdf) and we'll send along detailed instructions as well as stipend paperwork.

Submitted by Paul Bierman, [pbierman@uvm.edu](mailto:pbierman@uvm.edu)

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## **4) NASA Planetary Science Subcommittee Meeting Dec. 3-4**

The next meeting of the Planetary Science Subcommittee of the NASA Advisory Council will take place 3-4 December at the Space Technology Building of the Laboratory for Atmospheric & Space Physics of the University of Colorado, Boulder. The current draft of the agenda is posted at <http://www.lpi.usra.edu/pss>. The meeting will be open to the public on a space-available basis. For those unable to attend the meeting in person, audio of the meeting will be available via teleconference:

Phone: 866-880-0098  
Passcode: 2122674

Slides will be visible via WebEx (<http://nasa.webex.com>):

Title: December 2009 PSS Meeting  
Date: Thursday, December 3, 2009  
Time: 8:30 am, Mountain Time (Arizona, GMT-07:00)  
Meeting Number: 992 185 191  
Meeting Password: PS\$M33ting

Title: December 2009 PSS Meeting Day 2  
Date: Friday, December 4, 2009  
Time: 8:30 am, Mountain Time (Denver, GMT-07:00)  
Meeting Number: 998 648 725  
Meeting Password: PS\$M33ting

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## **5) Planetary Science Decadal Survey Steering Group Meeting Nov. 16-18**

The next meeting of the Planetary Science Decadal Survey Steering Group will take place 16-18 November at the Arnold and Mabel Beckman Center, 100 Academy Dr., Irvine, California. The current draft of the agenda is posted at:

<http://www8.nationalacademies.org/cp/meetingview.aspx?MeetingID=3546&MeetingNo=2>

More information about the Decadal Survey can be found at:

[http://sites.nationalacademies.org/SSB/CurrentProjects/ssb\\_052412](http://sites.nationalacademies.org/SSB/CurrentProjects/ssb_052412)

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## **6) AGU Voluntary Contribution Campaign**

Last year, members of the Planetary Sciences Section contributed \$12,936 to AGU's Voluntary Contribution Campaign. In 2008, due largely to member donations like these,

AGU facilitated career development events attended by 600 students, hosted 75 K-12 teachers at Fall Meeting workshops, and sponsored 31 members' visits with U.S. policy makers. Additionally, voluntary contributions allowed AGU to provide travel grants to 135 deserving students to present their research for the first time at an AGU meeting. These programs are essential for AGU's relevance and vitality. I know Planetary Science members want AGU to do more. Please join me in supporting AGU's efforts to strengthen our scientific society by making a gift to the 2010 Voluntary Contribution Campaign. Unrestricted contributions are used to support AGU's greatest needs, but you can directly support students pursuing Planetary sciences by making a gift to the Giacomo Giampieri Travel Grant. You can make your gift when you renew your AGU membership, or you can give today at:

[https://www.agu.org/givingtoagu/making\\_your\\_gift.php](https://www.agu.org/givingtoagu/making_your_gift.php).

Sally Schwettmann  
Annual Gifts Manager

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For future newsletter items please contact:  
Section Secretary Bruce Banerdt, [bruce.banerdt@jpl.nasa.gov](mailto:bruce.banerdt@jpl.nasa.gov)

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