



*International Association of Geomorphologists (IAG)  
Working Group on Planetary Geomorphology*

**Annual Report 2007-2008**  
*Planetary Geomorphology Working Group*

**National Representatives**

Matt Balme	UK
<a href="#">Vic Baker</a> (Chair)	USA (west)
<a href="#">Mary Bourke</a> (Coordinator)	USA
Colman Gallagher	Ireland
Alberto Fairén	Spain
Mikhail Ivanov	Russia
<a href="#">Rolf Jaumann</a>	Germany
<a href="#">Goro Komatsu</a>	Italy
<a href="#">Nicholas Mangold</a>	France
<a href="#">John Murray</a>	UK
<a href="#">Takashi Oguchi</a>	Japan
<a href="#">Gordon Osinski</a>	Canada
<a href="#">Colin Pain</a>	Australia
<a href="#">Heather Viles</a>	UK
<a href="#">Jim Zimbelman</a>	USA (east)

**Progress on intended main output for the group and activities for the year to date:**

*Task 1: Establish a web page linked to the IAG/AIG web site to facilitate the organization and dissemination of information regarding planetary geomorphology.*

- The working group's [web page](#) was launched in March 2007. This is hosted by the [Planetary Science Institute](#), Tucson Arizona.

*Task 2: Organize special sessions at national and international conferences with a view to publishing thematic journal issues.*

- [Comparative planetary geology: Terrestrial analogues to Mars and the Moon in the Arctic](#), 2007 Geological Association of Canada. Gordon Osinski.
- [2<sup>nd</sup> International Workshop, Exploring Mars and its Earth Analogues](#), Trento, Italy. 19<sup>th</sup>-23<sup>rd</sup> June, 2007. Organized by Italian Space Agency/International Research School of Planetary Sciences. Goro Komatsu.
- [Planetary Dune workshop](#) (in progress, April 28<sup>th</sup>-May 2<sup>nd</sup> 2008). Mary Bourke.
- A special session on Planetary Permafrost at [The Ninth International Conference on Permafrost](#) . (in progress, June 29<sup>th</sup> – July 3<sup>rd</sup>, 2008). Nicholas Mangold.
- Special issue of the Japanese journal "Journal of Geography" related to GIS, including GIS applications to geomorphology on Mars. Takashi Oguchi and Goro Komatsu.



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*Task 3: Propose a Working Group session at the 7th IAG/AIG (Melbourne, 2009). Produce an edited volume from this session.*

- A proposal for a special session on Planetary Geomorphology has been approved by the conference committee and will be organised by Colin Pain and Mary Bourke.

*Task 4: Organize field trips (associated with conferences) to terrestrial analog field sites.*

- We are organising a fieldtrip for the 7<sup>th</sup> IAG/AIG (Melbourne, 2009) to be led by Jon Clarke and Colin Pain.

*Task 5: Make Educational resources available via the web page.*

- 1,427 copies of the Working Group publication: Bourke, M.C. and H.A. Viles, Eds. (2007) [\*A photographic atlas of rock breakdown in geomorphic environments\*](#), Planetary Science Institute, Tucson, have been downloaded since February 2007.

a) *Compile a CD of images of planetary landforms that can be easily incorporated into lectures.*

- To be undertaken 2008-2009.

b) *Collate a bibliography of basic readings on the geomorphology of planetary bodies (make available online).*

- Recommended [reading lists](#) for aeolian, coastal, craters, fluvial, lacustrine, mass wasting, ice in the inner solar system, volcanic, weathering and tectonic planetary geomorphology have been completed and uploaded to the web site.
- A new [planetary geomorphology image](#) is uploaded each month with a detailed figure caption and recommended further reading. These images are intended to educate and provide a resource for those who wish to include planetary geomorphology in their course lectures.

c) *Maintain a web page of 'recent' geomorphology papers on planetary surfaces (updated monthly).*

- This task has been folded into the online reading lists which will be updated annually.

### **Grant expenditure**

A bank account has been set up at the Allied Irish Bank in Dublin, Ireland. There was no expenditure in 2007. Current balance is 500 Euro.

Plans for funds expenditure in 2008-2009 include 1. Meeting costs of organising IAG field trip; 2. Hiring student to assist in collation of CD of planetary geomorphology images.

### **Plans for 2008**



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**Special Sessions:**

- [Planetary dunes workshop](#), April 29<sup>th</sup> – May 2<sup>nd</sup>, 2008, Alamogordo, New Mexico. Convened by Mary Bourke and others.
- [Comparative planetology: Exploring other world's by exploring Earth.](#), 2008 Geological Association of Canada. Convened by Gordon Osinski and others.
- A special session on Planetary Permafrost at [The Ninth International Conference on Permafrost](#) . (in progress, June 29<sup>th</sup> – July 3<sup>rd</sup>, 2008). Nicholas Mangold.

**Publications 2008:**

- The Japanese Geomorphological Union is editing a dictionary of geomorphology in Japanese. It will include terms of planetary geomorphology. Goro Komatsu.
- Special Issue from planetary dunes workshop will be published in *Geomorphology* in 2009 Guest edited by M. Bourke, L. Fenton and N. Lancaster.
- Special Issue from the Comparative Planetary Geomorphology meeting in Canada will be published in *Planetary and Space Science* on Terrestrial analogues: Exploring other planets by exploring our own. Guest Edited by Gordon Ozinski.
- Geological Map of Venus will be published in Russia. Misha Ivanov

**Other:**

- Begin compilation of a CD of images of planetary landforms
- Organise the IAG Planetary Geomorphology fieldtrip for Melbourne 2009.
- Begin compilation of images and data for the *An Atlas of Planetary Dunes* M. C. Bourke and A.S. Goudie. A second publication of the Working group

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