



# PLANETARY GEOLOGY

## DIVISION NEWSLETTER

VOLUME 23, NUMBER 3

OCTOBER, 2004

### **Message from the Division Chair**

*Michael S. Kelley, Georgia Southern University*

As I write this, tens of thousands of Americans are taking a more active role in our nation's future by registering to vote. Record numbers of new voters are flooding registration offices across the country. What about you? Are you ready to take a more active role in your professional future? Are you willing to roll up your sleeves and contribute some hard work? The Planetary Geology Division – YOUR division – of GSA is always looking for just that type of individual. In addition to serving in leadership positions in GSA, your Division officers chair their home departments, start and raise families, host workshops, chair award committees in the planetary community, serve on review panels and program committees, and still manage to submit proposals, write papers, and teach. So what do you say? Are you an over-achiever with no time to spare? Would you like to join the fun anyway? Then contact one of the Division officers (see contact info on the last page) and let us know. In addition to Division leadership positions that open each year, we often recruit volunteers to help us chair sessions, staff our information booths, and host special events.

Each year the Planetary Geology Division brings some of the hottest topics and latest missions to the geologic community by way of the GSA Annual Meeting. This year in Denver, proposals sponsored by your Division snagged two of the eight coveted Pardee Keynote Symposia. By acting quickly early this year, we capitalized on the success of GSA's public forum last year in Seattle. This year the Planetary Geology Division will be hosting a Mars Public Forum in Denver. GSA's corporate sponsor, Subaru, has provided substantial funding that will allow us to produce a webcast of the event. For the first time at a national GSA meeting we are hosting a Planetary and Space Art Exhibit for a full afternoon during the conference. This will feature paintings, sculptures, photographs, and digital art by more than a dozen scientists and artists.

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The Planetary Geology Division continues to evolve and adapt to changing times. For the first time in 20 years changes are being proposed to the Division bylaws. Additions are being written to include new awards sponsored by the Division. We also are updating the nomination procedures for new officers to reflect the way it has actually been done for more than half a decade. In addition, we are more specifically defining the duties of management board members. In the near future you will have a chance to review and approve these changes.

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### **2004 DWORNIK PRIZE WINNERS**

**Keith A. Milam**, University of Tennessee (*poster*)

**Nicholas J. Tosca**, State University of New York,  
Stony Brook (*oral*)

#### **Honorable Mentions**

**Joel A. Hurowitz**, State University of New York,  
Stony Brook (*poster*)

**Sarah K. Noble**, Brown University (*oral*)

**Chris H. Okubo**, University of Nevada, Reno  
(*oral*)

**Chair's Message** (*continued from p. 1*)

The current officers also are developing a guidebook for the year-to-year operation of the Division. This guidebook will describe in detail the duties of each officer and will include timelines of Division activities. This will improve significantly our work efficiency and facilitate our timely interaction with GSA headquarters. (Rumor has it that such a guidebook for the Division was developed at least once in the past. If anyone still has a copy, we'd love to borrow it!)

One of the more visible changes will be our new electronic home, which is under construction now. In the very near future, we will introduce a new Division website hosted by the Department of Geology and Geography at Georgia Southern University. We will have updated versions of the links found on our former site, plus additional links to a variety of planetary resources. The new website will include an archive of past newsletters, the Division bylaws, lists of previous Division award recipients, and photo galleries. We plan to make this a dynamic website where Division members can contribute photos and news.

We are pleased to report that the Division is financially healthy and that membership is up over the previous year. It is also nice to know that other GSA divisions have been paying close attention to the way we operate. Our success and visibility at recent GSA meetings have been noticed and leaders of other divisions are interested in learning from our experience. Of course, we have the advantage of working in one of the most exciting wide-open geoscience disciplines. Planets and spacecraft are guaranteed to capture the imagination and fuel the excitement of scientists and the public alike. We may not be the largest division at GSA, but we certainly have the biggest field area!

For those of you who are not too "bushed" to "carry" on after Election Day, we look forward to seeing you at the GSA Annual Meeting in Denver!

***Division Activity at Recent Meetings***

The Planetary Geology Division continued to sustain a high level of activity and visibility at both the Fall 2003 GSA meeting in Seattle and the 35<sup>th</sup> Lunar and Planetary Science Conference in Houston, Texas. At the GSA meeting in Seattle, the Division sponsored a Pardee Keynote Symposium entitled "Preservation of Random

Mega-Scale Events on Mars and Earth: Influence on Geologic History" which was organized and run by Drs. Mary Chapman and Lazlo Keszthelyi. The Planetary Geology Division booth also continued to serve as a focal point for Division fundraising and outreach activities; we express our sincere thanks to Ms. Jaclyn Allen (Lockheed-Martin) for her continued dedicated efforts in support of our Division's booth! Finally, at the annual Business Meeting, the 2003 G.K. Gilbert Award was given to Dr. Roger Phillips of Washington University at St. Louis; the citationist was Dr. Ray Arvidson, also of Washington University. Full details about the exciting events at the 2003 Seattle meeting can be found in the January 2004 issue of the Division newsletter.

The judging panel at the 35<sup>th</sup> LPSC saw another crop of outstanding entries for the 2004 Dwornik Prize —many thanks to the all the students who competed and to the volunteers who assisted with the judging!

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***Division Activity:  
GSA Annual Meeting  
Denver, November 6-10, 2004***

Denver will be an exciting GSA meeting for the Planetary Division; we have one of the most exciting lineups ever, and two brand-new events. Remember to register for this meeting at <http://www.geosociety.org>, and be sure to swing by the Division booth, Lucky Booth #1313. To find us, just look right behind the GSA bookstore. We will again be fund-raising for our Division at the booth, so be sure to stop by for T-shirts, space-related toys, Mars maps, photographs of extraterrestrial surfaces and other goodies.

It looks like Tuesday, November 9 is the unofficial Planetary Day at GSA! This year's Annual Meeting will have a number of out-of-this-world events sponsored by the Planetary Geology Division. Perhaps one of the more visually appealing activities will be the Planetary and Space Art Exhibit. Works by scientists and artists who specialize in heavenly works will display their original creations. These will include paintings, textural art, photography, and electronic art. Works by Bill Hartmann, Dan Durda, Leonard Wikburg, Ulrike Arnold,

*(continued on p. 3)*

**ANNOUNCING THE 2004 G. K. GILBERT AWARD WINNER**

***Dr. William Hartmann, Planetary Science Institute***

Previous Gilbert Award Recipients: E. Shoemaker (1983); G. Wetherill (1984); W. Alvarez (1985); R. Baldwin (1986); D. Gault (1987); D. Wilhelms (1988); H. Schmitt (1989); H. Masursky (1990); J. Guest (1991); J. Wood (1992); M. Carr (1993); S. R. Taylor (1994); B. Lucchitta (1995); R. Sharp (1996); R. Greeley (1997); J. Adams (1998); S. Solomon (1999); L. Soderblom (2000); H. J. Melosh (2001); J. Head (2002); R. Phillips (2003).

**PGD Activities in Denver** *(continued)*

and others will be on display. This event will be held from 1:30 to 6:00 pm on Tuesday at the Colorado Convention Center. The cost is a very reasonable \$2.00 per person, which will be donated to the Planetary and Geology Division. For more information, contact Mike Kelley [mkelley@georgiasouthern.edu](mailto:mkelley@georgiasouthern.edu) or Mary Chapman [mchapman@npgcable.com](mailto:mchapman@npgcable.com).

We also will be sponsoring the GSA Public Forum on Mars: The Latest (Red) Dirt from the Mission Makers. This free event, held on Tuesday night and linked to the Mars Pardee session Wednesday morning (see below), is from 7:30-9:00pm at the Convention Center; funding for this event is provided by Subaru, GSA's corporate sponsor. This year, five spacecraft are simultaneously exploring Mars, providing an unprecedented look at the surface and subsurface of this intriguing planet. New data from these active missions provide powerful new insights into the origins of the solar system and our own planet, Earth. Panelists for this non-technical overview of current Mars exploration include:

**Daniel J. McCleese** (NASA Jet Propulsion Laboratory, Pasadena, CA): Overview

**Michael C. Malin** (Malin Space Science Systems, San Diego, CA): Mars Global Surveyor mission

**Philip Christensen** (Arizona State University, Tempe, AZ): Mars Odyssey mission

**Steven W. Squyres** (Cornell University, Ithaca, NY): Mars Exploration Rover missions

**Jeffrey J. Plaut** (NASA Jet Propulsion Laboratory, Pasadena, CA): Mars Express mission

We are particularly excited to report that this year the Planetary Geology Division will sponsor not one, but two Pardee Keynote Symposia. The first, entitled "Pre-Mesozoic Impacts: Their Effect on Ocean Geochemistry, Magnetic Polarity, Climate Change, and Organic Evolution," is being co-organized by Drs. Charles Sandberg, Christian Koeberl and Jared Morrow. The second, "Seeing Mars with New Eyes: Active Missions, Science Results, and Geoscience Education," is co-organized by Drs. Eric Grosfils and Susan Sakimoto. Pardee Keynote Symposia, made possible by a grant from the Joseph T. Pardee Memorial Fund, are special events of broad interest to the geoscience community. Competitively selected, they represent hot-issue topics on the leading edge in a scientific discipline or area of public policy, address broad fundamental issues, and are interdisciplinary.

The Division is also sponsoring several Topical Sessions. These are listed above in the quick schedule. Finally, don't forget to attend the Planetary Geology Division Awards and Recognition Ceremony (formerly the Business Meeting) on Tuesday, November 9 at 12:15 pm in Ballroom 4 of the Convention Center. We hope to again be raffling planetary-related books at the meeting, so come by to win a book, enjoy some good food (asian noodles and a pastry buffet!) and conversation, and honor all of this year's award winners!

## ***Finances and Membership***

The Division's finances remain healthy, and we hope they will continue to improve as we stay focused on reducing costs and raising funds. This electronic newsletter represents a key cost-cutting measure, as electronic distribution reduces our costs considerably. As is shown below, our largest single yearly cost continues to be the Division's annual business meeting at the national GSA meeting, and we will continue to search for ways to reduce this expense. The financial activity of our Division over the past year can be summarized as follows:

REVENUE	2003-2004 Budget Year
	--
2003 Division Dues Income	\$ 2272.52
Transfer (to)/from Foundation	--
Miscellaneous Income	\$2009.75
Contributions	\$ 460.00
<b>Total Revenue</b>	<b>\$ 4742.27</b>

EXPENSES	
Annual Meeting	
Catering	\$ 1042.75
Miscellaneous Division Meeting Expenses	\$ 7.98
Travel	\$ 246.03
Advertising, promotions	\$209.18
Postage, printing	\$ 127.04
Awards	\$ 189.67
Misc. Expenses	**
<b>Total Expenses</b>	<b>\$ 1822.65</b>

<b>Net Assets, Start of the Year</b>	<b>\$ 10,049.06</b>
<b>Net Income/(Loss)</b>	<b>\$ 592.14</b>

<b>Unrestricted Net Assets, Year to Date</b>	<b>\$ 5899.96</b>
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**Membership:** As of the end of June 2004, the Division has 455 members, up from 414 last year! Please encourage your colleagues to keep their Division memberships active, and remember that GSA accepts new membership applications online at the GSA website, <http://www.geosociety.org>.

## ***The Eugene M. Shoemaker Memorial Award for Crater Studies***

The Eugene M. Shoemaker Memorial Fund for Crater Studies was established by Dr. Carolyn Shoemaker in memory of her husband in 1998. She established the endowment so that students will have an opportunity to pursue studies of impact craters, which were the focus of

*(continued on p. 4)*

**Shoemaker Award** (*continued*)

her husband's graduate student studies and a large part of his professional career. Friends, scientific colleagues, and companies have contributed to (and continue to contribute to) the fund to ensure its success.

Despite heavy advertising, no students applied for this award this year. We encourage all of our Division members to actively recruit promising students to apply for this prestigious award.

The Eugene M. Shoemaker Memorial Award for Crater Studies is for undergraduate or graduate students, of any nationality, working in any country, in the disciplines of geology, geophysics, geochemistry, astronomy, or biology. The award, which includes \$2000, is to be applied for the study of impact craters, either on Earth or on other solid bodies in the solar system. Areas of study may include but shall not necessarily be limited to impact cratering processes, bodies (asteroidal or cometary) that make the impacts, or the geological, chemical or biological results of impact cratering. Applications will be due on September 1, 2005.

For further details about the award and applications see: [http://www.lpl.arizona.edu/Shoemaker\\_Award/](http://www.lpl.arizona.edu/Shoemaker_Award/)

### ***Call for Applications & Nominations***

For the past several years the Division has enjoyed a great deal of growth and vibrancy, something we hope will continue well into the future! This is something that reflects positively upon us as a community, and we would like to remind everyone of the opportunities to participate and contribute.

**G.K. Gilbert Award:** All members are strongly encouraged to submit nominations for the G. K. Gilbert Award. This is the Division's highest award, presented annually for outstanding contributions to the solution of fundamental problems in planetary geology in the broadest sense. Submit nominations (including a letter detailing the accomplishments of the nominee) to Mike Kelley [mkelley@georgiasouthern.edu](mailto:mkelley@georgiasouthern.edu) by Feb. 1, 2005.

**Dwornik Award:** The Dwornik fund is currently self-sustaining, but we hope the fund will continue to grow and provide new opportunities, and thus encourage your donations. In addition, anyone interested in serving as a judge for the Dwornik competition at next year's LPSC should please contact the Division's Second Vice-Chair to volunteer!

**Eugene M. Shoemaker Award:** The Shoemaker fund is currently self-sustaining, but we welcome your donations. As a reminder, the deadline for 2005 will be September 1, 2005! For details and online application forms: [http://www.lpl.arizona.edu/Shoemaker\\_Award/](http://www.lpl.arizona.edu/Shoemaker_Award/)

**Best Student Paper in Planetary Sciences:** This award, offered jointly with the Meteoritical Society, is an opportunity for student first authors publishing their

work in English to receive recognition for outstanding scientific achievement. For details, or to nominate papers published in 2004, contact Division Chair Mike Kelley. Please also see the article in this newsletter by Mike Kelley for changes regarding the Best Student Paper Award. The deadline for nominations is 31 January 2005.

**Pardee Keynote Symposium:** The Pardee Keynote Symposia, as special events selected on a competitive basis because of their broad interest to the geoscience community, are an important avenue for conveying important new planetary science results to a broader audience. This forum for communicating with and connecting to the rest of the geoscience community represents an opportunity for us all, and we encourage anyone with ideas for Pardee Keynote proposals to coordinate with Eric Grosfils [egrosfils@pomona.edu](mailto:egrosfils@pomona.edu) or Tom Watters [twatters@nasm.si.edu](mailto:twatters@nasm.si.edu). As you consider possible topics, remember that the Pardee Keynote Symposia represent interdisciplinary, leading-edge topics in a scientific discipline or area of public policy or address broad fundamental issues.

The Division also strongly encourages the submission of Topical Sessions for GSA meetings. Division-sponsored Topical Sessions provide a format for the exchange of ideas at GSA meetings.

### ***The Planetary Sciences Best Student Paper Award: Changes in the Works***

*Michael S. Kelley, Georgia Southern University*

The Planetary Sciences Best Student Paper Award (BSPA) is cosponsored by the Planetary Geology Division (PGD) of the Geological Society of America (GSA) and The Meteoritical Society (MetSoc). This award was established largely in response to the GSA's Dwornik Award. Only U.S. citizens are eligible for the Dwornik Award. However, the BSPA is an international prize awarded each year for the best student paper published in a peer-reviewed journal during the previous calendar year.

The Selection Committee for the award consists of three members of each society, and is chaired in alternate years by a member of each society. The Committee Chair must have served as a regular Committee Member for at least one year prior to assuming the lead position.

In 2004, the Committee was chaired by MetSoc member Ulrich Ott of the Max-Planck Institut für Chemie in Mainz, Germany. In 2005, it will be the PGD's turn to chair the Committee. Two of the three PGD members rotated off the Committee this year. In 2004, I served as a regular member of the BSPA Committee, and I will be the only returning Committee Member for the PGD side. Consequently, I will be serving as chair of the Committee in 2005.

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**Best Student Paper Award** *(continued)*

The BSPA Committee met during the 35<sup>th</sup> Lunar and Planetary Science Conference in March 2004. In addition to selecting a winner from the 2003 nominations, the Committee discussed important issues regarding the award.

One of our greatest concerns was the decline in the number of nominations for this award. Unlike the Dwornik Award, for which students compete at the LPSC each year, candidates for the Best Student Paper Award must be nominated by at least one advisor or colleague. In recent years, the Dwornik competition has consistently received more than 50 entries. By comparison, only 3 students were nominated for the BSPA last year, down from 8 in the previous year.

The Committee decided that increasing the number of nominations required increasing the award's visibility and prestige. We agreed unanimously that while "Planetary Sciences Best Student Paper Award" is accurately descriptive, it is a cumbersome title. After some deliberation, the Committee decided to rename the award. The award is sponsored by two societies, so we decided that each society should supply a name in memory of one of its members. The new award name would be hyphenated, with the MetSoc member's name preceding that of the GSA member. (I suggested this order because MetSoc funds the award.)

Our Division chose to honor Graham Ryder. Graham was highly respected in the Planetary Science community. This is an international award, which reflects Graham's roots. He worked with a number of student interns at LPI, and all of them have high praise for him. Many students found him to be one of the most approachable senior scientists in the Planetary community, and because this is a student award, honoring Graham in this manner seems especially appropriate. The BSPA covers a broad range of planetary science topics, and Graham was qualified to speak on a number of subdisciplines. Finally, we knew of no other professional award that honored Graham's memory, and we felt there should be one.

The choice of Graham's name has met with enthusiastic support among the Selection Committee members, and was given unanimous support from the PGD management board. We also have approval from the Lunar and Planetary Institute and Graham's daughter to use his name for the award.

On the MetSoc side, Paul Pellas' name was suggested. Paul is considered to be the founding father of French meteoritics, and he was the first non-U.S. president of MetSoc. Among other areas, Paul was an expert on the thermal histories of chondritic parent bodies, and on the fission track record of ordinary chondrites. The use of Paul's name is pending approval of the MetSoc council. The BSPA Selection Committee evaluates only those papers nominated for the award by members of the

Planetary Science community. On behalf of the Committee, I want to remind you to keep this award in mind when you find and read peer-reviewed articles published by student members of our community. If you feel the paper makes an original, significant contribution that increases our state of knowledge in one or more areas, please bring it to our attention. The Committee will be putting out a call for nominations shortly.

**THE BEST STUDENT PAPER IN  
PLANETARY SCIENCES AWARD  
WINNER, 2003**

**Shoichi Itoh**

Department of Earth & Planetary Sciences,  
Tokyo Institute of Technology, Meguro, Japan  
"Contemporaneous formation of chondrules and  
refractory inclusions in the early Solar System,"  
*Nature*, Vol. 423, p. 728-731.

***Contacts for Enhancing  
International Communication***

Our Division asks for volunteers outside the US who are willing to receive queries from active or potential GSA members regarding planetary research in their country. If you would like to join the list of volunteers provided below, please contact the Division's Secretary/Treasurer.

**Argentina**

Marcela Sanchez Calle      [amcalle@velocom.com.ar](mailto:amcalle@velocom.com.ar)

**Australia**

Noel Jackson      [nwj100g@bigpond.com](mailto:nwj100g@bigpond.com)

**Austria**

Christian Koeberl      [christian.koeberl@univie.ac.at](mailto:christian.koeberl@univie.ac.at)

**Belgium**

Philippe Claeys      [phclaeys@vub.ac.be](mailto:phclaeys@vub.ac.be)

**Canada**

Frank Brunton      [brunton@sciencenorth.ca](mailto:brunton@sciencenorth.ca)  
Edward Cloutis      [e.cloutis@uwinnipeg.ca](mailto:e.cloutis@uwinnipeg.ca)  
Richard Ernst      [ernst@nrcan.gc.ca](mailto:ernst@nrcan.gc.ca)  
Alan R. Hildebrand      [hildebra@geo.ucalgary.ca](mailto:hildebra@geo.ucalgary.ca)

**France**

Philippe L. Masson      [masson@geol.u-psud.fr](mailto:masson@geol.u-psud.fr)

**Italy/Vatican City State**

Br. Guy Consolmagno, S.J.      [gjc@specola.va](mailto:gjc@specola.va)  
Frances Westall      [frances.westall@tin.it](mailto:frances.westall@tin.it)

**Spain**

Iván López      [i.lopez@escet.urjc.es](mailto:i.lopez@escet.urjc.es)

**Sweden**

Ilka von Dalwigk      [ilka@geo.su.se](mailto:ilka@geo.su.se)

**GSA 2004 Planetary Geology Division Officers**

**Chair:** Michael Kelley, Georgia Southern University, Department of Geology and Geography, Statesboro, GA 30460-8149; [mkelley@georgiasouthern.edu](mailto:mkelley@georgiasouthern.edu).

**1st Vice-Chair:** Eric Grosfils, Pomona College, Department of Geology, Claremont, CA 91711; [egrosfils@pomona.edu](mailto:egrosfils@pomona.edu).

**2nd Vice-Chair:** Thomas Watters, Smithsonian Institution, Center for Earth & Planetary Studies, NASM-MRC-315, Washington, DC 20560-0315; [twatters@comcast.net](mailto:twatters@comcast.net).

**Secretary-Treasurer:** R. Aileen Yingst, University of Wisconsin-Green Bay, Department of Natural & Applied Sciences, Green Bay, WI 54311; [yingsta@uwgb.edu](mailto:yingsta@uwgb.edu).

**COMING SOON!!!**

*Watch your e-mail for an announcement about the Division's new website!*

**Election of New Planetary Geology Division Officers**

This year we must elect a new Secretary/Treasurer for a two year position. Biographical information for current candidates and continuing officers, presented below, is followed by a ballot page and voting instructions.

**Grosfils, Eric B.,** b. Newport, RI; Planetary Geology, Volcanology. Educ: BS (Physics & Geology), College of William & Mary; PhD (Geological Sci), Brown Univ. Prof Exp: Asst Prof, Pomona College, 95-01; NASA-ASEE Summer Faculty Fellow—AVIRIS (JPL) 98 & MOLA (GSFC) 99; Short Term Visitor, SI NASM (CEPS), 98; Part-time Faculty appt, JPL, 98-99; Geology Dept Chair & Assoc Prof, Pomona College, 01-present. Member: GSA, AGU, CUR, NAGT, PKAL(F21), Sigma Xi. Selected Service: NASA Discovery Mission Science Review panel, 98; Advisory Board, Keck Geology Consortium, 98-02; GSA Planetary Geol Div Sec/Treas, 00-02, Second Vice-Chair, 02-03, First Vice-Chair, 03-04; LPSC Program Committee, 01-02; MGSDAP panel, 01; PCGMWG 02-04. Honors and Awards: NSF Graduate Fellowship, 90-93; Stephen R. Dwornik Best Poster (Hon. Men), 96; GSA Biggs Award for Excellence in Earth Science Teaching, 01. Research: dike emplacement and magma reservoir formation on Earth, Venus and Mars; secondary areas currently include geophysical analysis of grabens (Canyonlands Natl Park), impact crater & volcano geomorphology (Mars), geoscience education applications of Computational Science. Address: Geology Department, Pomona College, 609 N. College Ave, Claremont, CA 91711; [egrosfils@pomona.edu](mailto:egrosfils@pomona.edu).

**Watters, Thomas R.,** b. West Chester, PA; Tectonics, Planetary Geology. Educ: BS (Earth Sci), West Chester University; MS (Geology), Bryn Mawr College; PhD (Geology), George Washington Univ. Prof Exp: Senior Scientist, Center for Earth and Planetary Studies (CEPS), National Air & Space Museum, Smithsonian Institution, 98-present; Chairman CEPS, 89-98; Research Geologist, CEPS, 81-89; Participating Scientist, MARSIS, Mars Express Mission,

03-present; Participant, MESSENGER Science Team and member, EPO Team, 99-present; Director, Regional Planetary Image Facility, National Air and Space Museum, 02-present. Recent Service: Group Chief, PG&G, 03; Panel Member, PG&G, 02, Panel Member, MDAP, 02; Panel Member, MGSDAP, 01; Panel Member, Mars Odyssey Participating Scientist Program, 01; Editorial Board Member, *Geology*, 93-99. Honors/Awards: Wm. P. Phillips Memorial Scholarship (West Chester); AGU Editor's Citation - JGR-Planets, 92; Smithsonian Exhibition Award, 99. Research: Tectonism on Mars, Mercury and the Moon, mechanical modeling, study of terrestrial analogs. Address: Ctr for Earth & Planetary Studies, National Air & Space Museum, Smithsonian Institution, Washington, DC 20560-0315; [twatters@nasm.si.edu](mailto:twatters@nasm.si.edu).

**Yingst, R. Aileen,** b. Takoma Park, MD; Sedimentary textures, Volcanology, Planetary Geology. Educ: AB (Physics & Astronomy), Dartmouth College; MA & PhD (Geological Sciences), Brown Univ. Prof Exp: Adj. Asst Prof, Univ of Wisconsin-Green Bay, 00-present; Director, Wisconsin Space Grant Consortium, 00-present; Phoenix EPO partner, 03; Mars Polar Lander SSI/RAC team 98-00; Mars Pathfinder IMP team 98-00. Member: GSA, AGU, DPS, AAAS, AIAA, Sigma Xi. Recent Service: GSA Dwornik Award Judge, 02-04; MFRP panel 02, 03; PG&G panel 02; Space Colonization Tech Comm, AIAA, 01-present; NASA Space Grant Alliance Board, 01-present; GSA Planetary Geol Div Sec/Treas, 03-04. Honors/Awards: NASA Space Grant Graduate Fellowship, 96 (Brown), GE Fellowship, 91 (Dartmouth). Research: Morphology of sedimentary clasts on Earth and Mars; lunar mare emplacement mechanisms and terrestrial analogues; lunar surface mapping; surface composition of Mars and Moon. Address: Department of Natural and Applied Sciences, University of Wisconsin-Green Bay, Green Bay, WI 54311; [yingsta@uwgb.edu](mailto:yingsta@uwgb.edu).

**Prockter, Louise M.,** b. London, England; Planetary Geology, Remote Sensing. Educ: BSc (Geophysics, 1st class, Hons) Lancaster Univ, UK; MS & PhD (Planetary Geology), Brown University. Prof Exp: Postdoctoral Researcher, Johns Hopkins University Applied Physics Laboratory, 99-01; Senior Professional Staff, Johns Hopkins University Applied Physics Laboratory, 01-present. Member: GSA, AGU, DPS/AAS, Sigma Xi, WIA. Recent Service: Member, National Academies Space Studies Board Committee for Planetary and Lunar Exploration (COMPLEX), Nov 03-present; Member and Geology Subgroup Co-chair, Jupiter Icy Moons Orbiter (JIMO) Science Definition Team, Mar 03-present; NASA PG&G Review panel, 01, 03; NASA Exobiology and Planetary Protection Review panel, 03; GSA Dwornik Award judge, 01-04. Honors/Awards: Award for outstanding first paper in a classified or unclassified publication, Applied Physics Laboratory, 01; Elected full Member: Society of Sigma Xi, 99; Amelia Earhart Award: Zonta International Women's Org Fellowship, 98-99; Brown University: University Fellowship, 94-95; Lancaster Univ: Prize for best overall performance in Geophysics, 94. Research: Remote sensing of planetary surfaces, specifically structural geology and evolution of icy satellites and asteroids. Mission Exp: Planning for Galileo Europa Mission (GEM), data acquisition and calibration for Near Earth Asteroid Rendezvous (NEAR) mission; currently Deputy Instrument Scientist for Mercury Dual Imaging System on MESSENGER (Mercury Surface, Space Environment, Geochemistry and Ranging) mission. Address: Applied Physics Laboratory, MP3-E178, 11100 Johns Hopkins Road, Laurel, MD 20723; [Louise.Prockter@jhuapl.edu](mailto:Louise.Prockter@jhuapl.edu).

**Dear Fellows and Members of the Division:**

The 2004-2005 officer candidates for the Division, presented by the Nominating Committee and approved by the current officers, is presented below. Biographical data for these candidates are available on the previous page.

There are several ways you can cast your vote, as follows:

- 1) **Electronically.** To cast your vote online visit the web site: <http://rock.geosociety.org/balloting/planetary.asp>. At that site, you will be able to access the ballot using either your GSA member number or your e-mail address (if you have included it in your GSA data).
- 2) **By Mail or Fax.** To cast your vote on paper, please print out this ballot, and vote by checking the appropriate box or by writing in the name of your nominee in the space provided. Your ballot must be received by GSA no later than November 3, 2004, must be signed in the space provided, and must include your GSA member number\* in order to be valid. Mail your ballot to arrive at GSA by Nov. 3, 2004 at the address below, or fax your ballot by Nov. 3 to (303) 357-1074. For help with your member number, please contact GSA Services at [gsaservice@geosociety.org](mailto:gsaservice@geosociety.org), (303) 357-1000 (option 3), or tollfree in the U.S. at (888) 443-4472.
- 3) The election results will be announced at the Awards and Recognition Ceremony of the Planetary Geology Division, which will be held at lunchtime on Tuesday, November 9 during the 2004 Geological Society of America Annual Meeting in Denver.

<b>Chair: (vote for one)</b>	<b>Eric B. Grosfils</b>	(   )
(or write in _____)		(   )

<b>First Vice-Chair: (vote for one)</b>	<b>Tom Watters</b>	(   )
(or write in _____)		(   )

<b>Second Vice-Chair: (vote for one)</b>	<b>R. Aileen Yingst</b>	(   )
(or write in _____)		(   )

<b>Secretary/Treasurer: (vote for one)</b>	<b>Louise Prockter</b>	(   )
(or write in _____)		(   )

**PLEASE RETURN THIS BALLOT RIGHT AWAY** (to be received by mail or fax by November 3, 2004) to:

**GSA Headquarters, Attn: Division Ballot, PO Box 9140, Boulder, CO 80301**

Signature \_\_\_\_\_ GSA Member Number \_\_\_\_\_

**THIS BALLOT IS NOT VALID WITHOUT YOUR SIGNATURE and GSA MEMBER NUMBER**

*If you are inclined*, this would be a great time to make a contribution to either the Dwornik fund or the Shoemaker fund! Unlike many other charitable donations, your donation to these funds will produce positive results you can see for yourself as you encourage and support your future colleagues. Please include a check or money order with your ballot, made payable to *Planetary Geology Division, GSA*.

**YES I have enclosed a check as a donation to:**

**The Dwornik Fund** amount \$(\_\_\_\_\_)

**The Shoemaker Fund** amount \$(\_\_\_\_\_)

**WHEN MAKING A DONATION, PLEASE PUT THE BALLOT AND CHECK IN AN ENVELOPE AND MAIL IT TO  
GSA Headquarters at the address provided above.**