



# PLANETARY GEOLOGY

## DIVISION NEWSLETTER

VOLUME 20, NUMBER 1

AUGUST, 2002

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

*Susan Sakimoto, Goddard Earth Science & Technology Center at NASA/ Goddard Space Flight Center*

What is it that leads us to painstakingly map planetary topography and gravity fields, observe and calculate distant asteroid motions, analyze thousands of planetary surface spectra, image remote planet surfaces in every available wavelength, or model the emplacement of volcanoes or dunes we will never set foot on? While planetary sciences encompass an amazingly diverse set of fields, individuals, and goals, there is still a common sense of wonder at what is "out there" and a desire to explore and explain how it got there. One of the great joys of the field is the thrill of exploration and discovery, and the energy and enthusiasm of participants in conferences and other planetary events is always tangible. When people ask me if what we do is really relevant, I can readily think of a multitude of answers, but one of my favorites is the NASA mission statement: *To understand and protect our home planet, To explore the Universe and search for life, To inspire the next generation of explorers as only NASA can.* The contributions to this mission come from a multitude of people both within and without NASA from many science fields, and from many corners of our planet. While some might argue that such issues are a lux-

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ury, I would say that they are a necessary and integral part of what it is to be human. To those of you reading this, thank you - for your enthusiasm, your dedication, all of the long hours of work, and for your sense of wonder. It has made our field an exciting place to work and an inspiration to the next generation of explorers as well as the general public. I wish you years of discovery and sharing to come!

I am delighted to report that for 2002 the Planetary Geology Division is healthy, solvent, and actively engaged in pursuit of our mission. Founded in 1981, our purpose is to bring together scientists interested in planetary geology, to facilitate the presentation and discussion of their problems and ideas, to stimulate communication with other branches of the Earth

### **ANNOUNCING THE 2002 G. K. GILBERT AWARD WINNER**

***Dr. James W. Head III, Brown University***

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)

sciences, to promote research and the publication of results on planetary geology studies, and to advise and assist the officers and committees of the Society in matters pertaining to planetary geology. We have greatly benefited from a recent series of dynamic and active officers, and a renewed dedication to the health of our Division among our members. Our mission continues to evolve to meet the growing needs of the planetary geology community, and one of the highlights of our efforts has been a prominent role in rewarding excellence in our field at both the professional and student level. New awards as well as the growing visibility and fiscal health of existing awards have helped us showcase the Division, planetary geology research, and some outstanding Division member contributions to the field. We continue to try to bring the exciting new discoveries of planetary geology to K-12 teachers, undergraduates, teachers, members of the media and others. In the last few years, a large proportion of our recent efforts have been dedicated to ensuring financial solvency, recognizing excellence in colleagues and promising students, and increasing visibility within GSA and the wider community. I believe that these gains are now stable and self-sustaining within our annual Division work plan. We are now looking forward to increasing our ties to the terrestrial geology community in response to renewed interest within the Division's members in terrestrial analogs, and enthusiastic discussions with terrestrial earth scientists interested in the relevance of their work to extraterrestrial planets, bodies, and processes. We hope you will help us evaluate how well we are serving you, GSA, and the public, and we would be delighted to hear your suggestions, comments, and proposals.

*I look forward to seeing you in Denver! - SEHS*

### ***Division Activity at Recent Meetings***

The Planetary Geology Division continued to sustain a high level of activity and visibility at both the "Geo-Odyssey" Geological Society of America meeting in Boston and the 33<sup>rd</sup> Lunar and Planetary Science Conference. At the GSA meeting in Boston, the Division sponsored a Pardee Keynote Symposium entitled "Water's Many Forms in the Solar System: Implications for Geology, Exploration, and Life" (co-organized and run by Susan Sakimoto and Tracy Gregg) as well as several topical sessions and an educational workshop for K-12 teachers. The Planetary Geology Division booth also continued to serve as a focal point for Division fundraising and outreach activities; we once again express our sincere thanks to both Jaclyn Allen (Lockheed-Martin) and Carl

### **PRESENTING THE 2001 DWORNIK PRIZE WINNERS**

**Kelly Wilbur**, Brown University: *The effect of Coriolis effect on distal ejecta deposits on Mars (oral presentation)*

**Nicholas Warner**, State University of New York at Buffalo: *Lava flow field southwest of Arsia Mons, Mars: Estimates and comparisons of rheologic properties (poster presentation)*

#### **Honorable Mentions**

**Molly McCanta**, Brown University (oral)

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

Allen (JSC) for their continued dedicated efforts in support of our Division's booth, as well as all the others who so kindly lent a hand! Finally, at the annual Business Meeting, the 2001 G.K. Gilbert Award was given to Dr. H. Jay Melosh of the University of Arizona, and the following officers were announced and welcomed:

Chair **Susan Sakimoto**, *UMBC/Goddard*  
1<sup>st</sup> Vice-Chair **Tracy Gregg**, *SUNY-Buffalo*  
2<sup>nd</sup> Vice-Chair **Mike Kelley**, *Georgia Southern U.*  
Sec/Treas **Eric Grosfils**, *Pomona College*

At the 33<sup>rd</sup> LPSC, the primary focus was to coordinate judging activities for the 2002 Dwornik Prize competition—many thanks to all the students who competed and to the volunteers who graciously assisted with the judging!

### ***Forthcoming Division Activity: Denver, October 27-30, 2002***

As was the case in Boston last year, we are expecting a strong planetary program at this year's national Geological Society of America meeting in Denver. Remember to register for "Science at the Highest Level" online at <http://www.geosociety.org>, and be sure to swing by the Division booth (currently scheduled for Booth #255, toward the back on the left as you face into the hall). There will also be some interesting education-related demos occurring this year in collaboration with several of the education societies, be sure to come check things out!

We are particularly excited to report that this year the Planetary Geology Division will once again sponsor a Pardee Keynote Symposium, one we hope everyone will be able to attend. Entitled "There and Back

Again: Terrestrial Approaches to Extraterrestrial Problems,” the symposium is being organized by Dr. Tracy Gregg. Understanding Earth's place in the solar system is indeed consistent with the theme for the meeting, "Science at the Highest Level," and it is best accomplished through comparing and contrasting geologic phenomena throughout the solar system. This Pardee session will bring together experts in specific extraterrestrial geologic processes and authorities on the relevant terrestrial analogs, covering a broad range of topics to maximize interest within the broader GSA community. Furthermore, to our knowledge, this is the first time this type of format has been used at a GSA meeting, and we predict that the formal pairing of comparative planetologists with their terrestrial counterparts will result in lively discussion and fruitful partnerships. Such a diverse session is consistent with GSA's desire to emphasize the interdisciplinary nature of geology, and we expect the session will pave the way for new and exciting collaborations. We'll see you there!

### ***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 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.

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 for the 2002 award will be due on September 1, 2002.

This year, it was our pleasure to announce the winner of the third Shoemaker Award, funded by the Shoemaker Memorial Fund and sponsored by our Division. Our second recipient was Francis D. Winslow III from SUNY-Stony Brook. His research is focused upon refining age estimates for the impact melts associated with the Manicouagan impact event.

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

### ***Best Student Paper in Planetary Sciences for the Year 2001***

This year the Planetary Geology Division of the Geological Society of America, working jointly with the Meteoritical Society, once again presented an award for "The Best Student Paper in Planetary Sciences." This award may be granted annually at the discretion of the Meteoritical Council and the officers of the Planetary Geology Division on the recommendation of a selection committee of authorities in the field of planetary science. The Meteoritical Society supplies the monetary award (currently \$500), while the Planetary Geology Division supplies a plaque and administrative support. Among the topics included under this award are asteroids, comets, craters, interplanetary dust, interstellar medium, lunar samples, meteors, meteorites, natural satellites, planets, tektites, origin and history of the solar system. The award is limited to undergraduate and graduate students who are the first author of a paper published in a peer-reviewed scientific journal during a specific calendar year; only articles written in English are considered. The first author must have been a registered student at a degree awarding institution when the paper was submitted to the publishing journal.

We are happy to announce that the winner of the "Best Paper" award for 2001 is Björn Davidsson of

#### **THE EUGENE M. SHOEMAKER MEMORIAL AWARD WINNER FOR 2001**

**Francis D. Winslow III**  
SUNY-Stony Brook

#### **BEST STUDENT PAPER IN PLANE- TARY SCIENCES AWARD WINNER FOR 2001**

**Björn Davidsson**  
Uppsala University

Uppsala University for his paper "Tidal Splitting and Rotational Breakup of Solid Biaxial Ellipsoids" (Icarus 149, 375-379). In addition, Jérôme Aléon of Centre de Recherches Petrographiques et Geochimiques-CNRS receives an honorable mention for his paper "Clues to the Origin of Interplanetary Dust Particles from the Isotopic Study of their Hydrogen-Bearing Phases" (Geochimica et Cosmochimica Acta 65, 4399-4412). Congratulations!

### ***Finances and Membership***

The Division's finances remain healthy, and we hope they will continue improving as we stay focused on reducing costs and raising funds. This electronic newsletter represents one cost-cutting measure, as electronic distribution reduces the newsletter expense considerably. As costs continue to mount, however, we continue to pursue other ways to trim operational expenses.

Our largest single yearly cost continues to be the Division's annual business meeting at National GSA; last year, for example, though it is not yet reflected in the 2001 financial summary provided below, the cost of holding the lightly catered meeting at the conference site exceeded the entire intake from the Division booth (which had a very good year thanks to the energy brought to the task by those who manned the booth encouraging donations!) This year, therefore, after discussion with members at the business meeting in Boston, the Division will try a modified format for the business meeting. A cash bar will continue to be available (from ~5-7:30PM), as will a reduced selection of chips and similar munchies. Following the Gilbert Award ceremony, which will start at ~5:30PM and run for approximately 30 minutes, we are introducing this year a new element, the Gilbert Lecture, intended to lure more GSA attendees into contact with the Division. This year our invited speaker, suggested by the Gilbert Award recipient, is Apollo 17 lunar module pilot Harrison (Jack) Schmitt. He will give a 45 minute talk entitled "A

Lunar Field Geologist's Perspective 30 Years Later: Shocking Revelations about the Moon, Mars and Earth" with time for questions. We'll then take a short break, to be followed by the "business" part of the business meeting, which is open to all interested parties. We ask that members of the Division who attend GSA this year make an extra effort to attend the entire meeting (be sure to bring a friend!) and share your thoughts on how things seem to work. We welcome your feedback on the experiment and will be delighted to hear any suggestions you have to offer for improving the format.

The financial activity of our Division over the past year, which at the end of the fiscal year *did not yet reflect the high business meeting costs from the Boston GSA*, is summarized as follows:

REVENUE	2001 Budget Year
2001 Division Dues Income	\$ 2553.00
Contributions	\$ 997.91
<b>Total Revenue</b>	<b>\$ 3283.91</b>

EXPENSES	
Annual Meeting	
Catering	--
Miscellaneous Division Meeting Expenses	( \$ 724.72 )
Travel	--
Newsletter & labels	--
Postage	--
Awards	( \$ 33.59 )
Misc. Expenses	--
<b>Total Expenses</b>	<b>( \$ 682.13 )</b>

<b>Net Assets, Start of the Year</b>	<b>\$ 4423.19</b>
<b>Net Income/(Loss)</b>	<b>\$ 3966.04</b>

<b>Unrestricted Net Assets, Year to Date</b>	<b>\$ 8389.23</b>
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**Membership:** As of the end of the 2001 calendar year the Planetary Geology Division had 572 members. Continuing to increase our membership is a goal of the Division, and for the coming year we will strive to reach a total membership of 600-650. The officers of the Division will continue to encourage planetary geologists who are not currently members to join, and in addition we recently instituted the practice of having international contacts to serve as points of reference for scientists in other countries interested in learning about the Planetary Division. Please encourage your colleagues to keep their Division memberships active, to engage their students in the GSA community, and remember that GSA ac-

### **COME TO THE PLANETARY DIVISION BUSINESS MEETING!**

*Tuesday, Conference Center, Room TBA*

**Gilbert Award Ceremony, ~5:30-6 PM**

**NEW: Gilbert Lecture, 6-7 PM**

**Division Business Meeting, ~7:15-7:45 PM**

**\*\* Snacks & Cash Bar available, ~5-7:30 PM \*\***

cepts new membership applications online at the following web address: <http://www.geosociety.org>

**MEMBERSHIP CHALLENGE:** This year we would like to challenge the Division membership to help us break the "600 active members" barrier. Please encourage friends, students and colleagues to join the GSA Division which is literally out of this world!

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

For the past several years the Division has enjoyed a great deal of vibrancy, something we hope will continue well into the future! This is something which 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. Nominations (which include a letter detailing the accomplishments of the nominee) should be submitted directly to the current Chair of the Division prior to March 1<sup>st</sup> each year.

**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 the Division's 1<sup>st</sup> Vice-Chair. 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.

**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 2<sup>nd</sup> Vice-Chair to volunteer!

**Eugene M. Shoemaker Award:** The Shoemaker fund is self-sustaining at a base level, but we welcome your donations to help us increase the "impact" of this important award. As a reminder, the deadline for 2002 student nominations is September 1<sup>st</sup>, and next year's deadline will be September 1, 2003! For

more details and online application forms, please see: [http://www.lpl.arizona.edu/Shoemaker\\_Award/](http://www.lpl.arizona.edu/Shoemaker_Award/)

**Best Student Paper in Planetary Sciences:** This fairly new 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 2002 (January 15, 2003 deadline), please contact Dan Britt ([dbritt@utk.edu](mailto:dbritt@utk.edu)).

### ***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 serve as a contact, please contact the Division's Secretary/Treasurer. Our thanks to those who have volunteered thus far!

#### **Argentina**

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

### **BE SURE TO VISIT THE PLANETARY GEOLOGY DIVISION WEB PAGE AT**

<http://www.acsu.buffalo.edu/%7Eetgregg/gsa.html>

### **AND COME VISIT THE DIVISION BOOTH AT GSA IN DENVER!**



### ***Election of 2002-03 Officers for the Planetary Geology Division***

**Gregg, Tracy K.P.** Volcanology, Marine Geology, Planetary Geology. Educ: Brown Univ BS 90 Geol Sci with honors; Arizona State Univ PhD 95 Geol. Prof Exp: SUNY-Buffalo, Asst Prof 98-pres; Woods Hole Oceanographic Inst, Asst Scientist 97-98; Bridgewater State College, Lecturer 97; Woods Hole Oceanographic Inst, RIDGE Post-doctoral Fellow 95-97. Mbr: GSA, AGU, AWG, IAVCEI, Sigma Xi. Service: GSA Planetary Geol Div, Second Vice-Chair 01-02, Sec/Treas 99-00; Dwornik judge 97, 00, 01. Hon/Awards: Most Outstanding Geology Student, Brown U 90; Stephen R. Dwornik Best Student Talk, hon mntn 91; Stephen R. Dwornik Best Student Poster 93. Rsrch Int: Submarine, Venusian & Martian volcanology; subaerial effusive volcanism, mapping; geomorphology; mid-ocean ridge processes. [tgregg@acsu.buffalo.edu](mailto:tgregg@acsu.buffalo.edu)

**Kelley, Michael S.** Planetary Geology, Remote Sensing. Educ: U Conn BS 89 Geophysics; Rensselaer Polytech Inst MS 95, PhD 99 Geol. Prof Exp: Georgia Southern U, Rsrch Scientist II 02-pres, Adj Rsrch Assoc 98-01; Rensselaer Polytech Inst, Assoc Scientist 99-pres; Natl Rsrch Council NASA Johnson Space Ctr, Rsrch Assoc 99-01; NASA Infrared Telescope Facility, Visiting Astronomer 91-pres; Radon Detection Systems, Inc., Field Geologist 90-93; technical, scientific, academic, & engineering data processing and systems programming 78-90. Mbr: GSA, AGU, AWG, DPS/AAS, Met Soc, Sigma Xi. Service: GSA Planetary Geol Div Second Vice-Chair 01-02; LPSC Prog Committee 99-pres; GSA Dwornik Award Judge 00-pres; Georgia Southern U Biology Dept Faculty Judge, Sigma Xi studt awards 02; NASA Discovery Mission, PG&G, & Planetary Astronomy rvw panels; Astromaterials & Planetary Astro info booths, NASA-JSC Open House 99-01. Hon/Awards: NASA PSSS trvl awards 91-97; Amoco Fndtn Award, U Conn 86-87; U.S. Dept of Energy Flwshp 87; John B. Lucke Award, U Conn 88. Rsrch Int: Asteroid compositional studies; genetic testing of asteroid families; asteroid-meteorite connections; planetary remote sensing; comparative planetology. [mkelley@gasou.edu](mailto:mkelley@gasou.edu)

**Bell, Mary Sue.** Educ: Univ of Iowa BS 91, MS 94 Geol; Univ of Houston PhD Geology, in progress. Prof Exp: Lockheed Martin Space Mission Systems & Services, NASA/Johnson Space Ctr, Sr Scientist, Advanced Curation 97-pres; Lunar & Planetary Inst, Visiting Grad Fellow 94-97; Univ of Iowa Dept of Geosci, Rsrch Asst 92-94; Iowa DNR-Geol Surv Bur, Rsrch Asst 91-92. Mbr: GSA, MPSS. Service: Planetary Geol Div topical session organizer GSA 00; Planetary Decadal Study, Terrestrial Analogs to Mars task force 02; NASA Mars Returned Sample Handling curation task force 02; NASA-JSC Open House 97-01. Hon/Awards: U of Iowa Geol Dept Faculty Board, elected Grad Rep 93-94; U of Iowa, A.C. Trowbridge Award in Geology 94; Lunar & Planetary Inst, Visiting Grad Flwshp 94-97; MPSS studt trvl grants 97, 99; Lockheed Martin Lightning Award 98; Catastrophic Events & Mass Extinctions wrkshp trvl grant 00; NASA Volcanology wrkshp grant 01; NASA Space and Life Sciences Special Prof Achvt Award 01, Sustained Superior Scientific Achvt Award 01, Special Scientific Achvt Award 01, Directors Award of Excellence 02. Rsrch Int: Impact structures/processes, natural & experimental shock metamorphism, especially shock behavior of carbonates. [mary.sue.bell1@jsc.nasa.gov](mailto:mary.sue.bell1@jsc.nasa.gov)

**Yingst, R. Aileen.** Planetary Geology, Volcanology. Educ: Dartmouth Coll AB 91 Physics & Astronomy, minor Earth Sci; Brown U PhD 98 Geol Sci. Prof Exp: Adjunct Asst Prof, Univ of Wisconsin, Green Bay 00-pres; Director, Wisconsin Space Grant Consortium 00-pres; Mars Polar Lander SSI/RAC team 98-00; Mars Pathfinder IMP team 98-00. Mbr: GSA, AGU, DPS, AIAA, Sigma Xi. Service: NASA Mars Fundamental Rsrch Prog panel 02; NASA Planetary Geol & Geophysics panel 02; Space Colonization Tech Comm, AIAA 01-pres; NASA Space Grant Alliance Board 01-pres. Hon/Awards: NASA Space Grant Grad Flwshp 96-97. Rsrch Int: Lunar mare emplacement mechanisms and terrestrial analogues; lunar surface mapping; surface composition of Mars and Moon. [yinsta@uwgb.edu](mailto:yinsta@uwgb.edu)

**Grosfils, Eric B.** Planetary Geology, Volcanology. Educ: College of William and Mary BS 89 Physics & Geology; Brown Univ PhD 96 Geol Sci. Prof Exp: Pomona College Geol Dept, Chair and Assoc Prof 01-pres, Asst Prof 95-01; NASA-ASEE Summer Faculty Fellow, AVIRIS (JPL) 98 & MOLA (GSFC) 99; SI NASM (CEPS) Short Term Visitor 98; JPL part-time faculty appt 98-99. Mbr: GSA, AGU, CUR, NAGT, PKAL (F21), Sigma Xi. Service: NASA Discovery Mission Sci Rvw panel 98; Adv Board, Keck Geology Consortium 98-pres; GSA Planetary Geol Div, Sec/Treas 00-02; LPSC Prog Committee & Dwornik judge 01-02; MGSDAP panel 01; PCGMWG panel 02. Hon/Awards: NSF Grad Flwshp 90-93; Stephen R. Dwornik Best Poster, hon mntn 96; GSA Biggs Award for Excellence in Earth Science Teaching 01. Rsrch Int: Dike emplacement and magma reservoir formation on Earth, Venus and Mars; surface evolution of Venus and Mars. [egrosfils@pomona.edu](mailto:egrosfils@pomona.edu)

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

The slate of 2002-2003 officer candidates for the Division, presented by the Nominating Committee and approved by the current officers, is presented below. Biographical data for the candidates are available on the previous page.

There are TWO (2) different ways you can cast your vote, as follows:

- 1) **Electronically**. To cast your vote online, go to: <http://rock.geosociety.org/balloting/planetary.asp>. You will be asked to provide your e-mail address or GSA member number to confirm your Division member status.
- 2) **By Mail**. To cast your vote by paper, mark and return this ballot in an envelope stamped with first-class letter postage to the GSA address given below. Your ballot must be postmarked no later than September 30, 2002. Your ballot must be signed in the space provided and include your GSA member number to be valid. For assistance with your member number, contact GSA Member Services at 888-443-4472 or [member@geosociety.org](mailto:member@geosociety.org). The election results will be announced at the annual business meeting of the Planetary Geology Division, held during the 2002 Geological Society of America Annual Meeting in Denver in October.

<b>Chair: (vote for one)</b>	<b>Tracy K.P. Gregg</b>	(   )
(or write in _____)		(   )

<b>First Vice-Chair: (vote for one)</b>	<b>Michael S. Kelley</b>	(   )
(or write in _____)		(   )

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

<b>Secretary/Treasurer: (vote for one)</b>	<b>Mary Sue Bell</b>	(   )
	<b>R. Aileen Yingst</b>	(   )
(or write in _____)		(   )

<b>PLEASE RETURN THIS BALLOT RIGHT AWAY</b> (postmarked by September 30, 2002 at the latest) to:		
<b>GSA Headquarters, Attn. Divisions Liaison, P.O. Box 9140, Boulder, CO 80301</b>		
Signature _____	GSA mbr # _____	Date _____
<b>THIS BALLOT IS NOT VALID WITHOUT YOUR SIGNATURE and MEMBER NUMBER</b>		

*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*.

<b><u>YES I have enclosed a check as a donation to:</u></b>	
<b>The Dwornik Fund</b>	amount \$(_____)
<b>The Shoemaker Fund</b>	amount \$(_____)
<b>WHEN MAKING A DONATION, PLEASE PUT THE BALLOT AND CHECK IN AN ENVELOPE AND MAIL IT TO GSA HEADQUARTERS AT THE ADDRESS PROVIDED ABOVE.</b>	

## **GSA 2002 Planetary Geology Division Officers**

### Chair

Susan E.H. Sakimoto, NASA/Goddard Space Flight Center, Geodynamics Branch, Code 921, Greenbelt, MD 20771; sakimoto@core2.gsfc.nasa.gov

### First Vice-Chair

Tracy P. Gregg, SUNY at Buffalo, Department of Geological Sciences, 876 Natural Sciences Complex, Buffalo, NY 14260; tgregg@acsu.buffalo.edu

### Second Vice-Chair

Michael S. Kelley, Georgia Southern University, Department of Geology and Geography, Statesboro, GA 30460-8149; mkelley@gasou.edu

### Secretary-Treasurer

Eric B. Grosfils, Pomona College, Department of Geology, 609 N. College Avenue, Claremont, CA 91711; egrosfils@pomona.edu

### Past Chair

Ralph P. Harvey, Case Western Reserve University, Department of Geological Sciences, Cleveland, OH 44106; rph@po.cwru.edu



*The Geological Society of America*

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