



# PLANETARY GEOLOGY DIVISION NEWSLETTER

The Planetary Geology Division of the Geological Society of America

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## *Message from the Chair*



**Danielle Y. Wyrick**  
Space Science and  
Engineering Division,  
Southwest Research  
Institute

Welcome to an exciting new year in planetary geology! As the incoming chair of the 2015-2016 Planetary Geology Division, I'm excited to work with everyone in our community to help communicate the latest scientific findings being returned from missions across the solar system. Our recent 2015 Annual GSA meeting in Baltimore was a great success, with a number of well attended planetary sessions. Our PGD division booth was visited by many of our members and we appreciate the continued support and enthusiasm we receive from the

GSA community as a whole. Our Annual Meeting/Awards Banquet (now in its 5<sup>th</sup> year) was a sell-out this year and continues to be one of our popular events; I enjoy getting to see everyone in one room together! See the Notes section for details on all our award winners this year. I would like to personally thank the PGD members for their continued support that allows us to provide student travel grants to our annual meetings.

Joint efforts of the GSA Planetary Geology Division, along with the AGU Planetary Sciences Section, the AAS Division of Planetary Sciences and The Planetary Society, to advocate for planetary science funding have helped to secure a much-needed increase in NASA's FY2016 budget. The 2016 budget includes \$1.631 billion for Planetary Science, which should allow for a continued mix of missions across the solar system, as well as the R&A programs to support them. According to [Casey Drier at The Planetary Society](#), Congress and the White House received over 120,000 messages, many from our membership. It is through the collective efforts of our community that we are able to convey the excitement of planetary exploration, so congratulations and keep up the great work.

The PGD would like to welcome aboard our newest Student Advisory Member, Mathieu Lapôtre ([mlapotre@caltech.edu](mailto:mlapotre@caltech.edu)). Mathieu joins Senior Student Advisory Member Hannah Susorney ([Hannah.Susorney@jhuapl.edu](mailto:Hannah.Susorney@jhuapl.edu)) on our board. GSA divisions introduced student members to their boards in 2014, and for the PGD, this has been to our benefit. Our Student Advisory Members are active in updating the student resources page on our website, as well as outreach efforts to fellow students. In addition, Hannah has been elected Chair of the GSA Student Advisory Council, becoming a voting member on the

GSA council. The PGD is proud to have Hannah serving in this new prestigious position, as she will bring an informed student perspective. We will be looking for a new Student Advisory Member in 2016, to work with Mathieu as he starts his second year of service. Interested students should look to Page 8 for instructions on how to apply.

The 2016 GSA Annual Meeting will be held in Denver, CO, from September 25-28, 2016. Please note that this is a month earlier than usual, as the regular dates conflicted with national elections in November. This means that Session & Short Course Proposals are due February 1, 2016, abstract deadlines are moved up to July 12, 2016, and early registration and student travel grants will come due August 22, 2016. GSA will send out email reminders when these are due, but I wanted to make everyone aware of the earlier dates.

One of the most serious problems the PGD has faced this year has been the ongoing revelations of sexual harassment in the scientific community. The AAS has been proactive in this situation and I encourage you to read [AAS President C. Megan Urry's statement](#) on this issue. From my perspective, the planetary community, and PGD members in particular, have always provided a welcoming environment to share new scientific ideas. However, it would be irresponsible to ignore new evidence reported over the last few years of an ongoing and pervasive abuse situation (see [Clancy et al.'s report on harassment in the field](#); [Nature's news article on Geoff Marcy](#)). The PGD board remains committed to ensure that all our members – regardless of gender, race, orientation, age – enjoy attending our annual conference and benefit fully from community feedback and interaction. To that end, please do not hesitate to contact any board member

(listed at the end of the newsletter) if you have concerns regarding issues of diversity or abuse in our community. It is our joint responsibility to create a safe and productive environment for all our members, as well as not allow bad actors to continue as “open secrets” of harassment. I believe we do that job well, but I hope we can all work toward a renewed effort in 2016 to ensure that harassment of any type is not tolerated in our community. Planetary science is by definition a diverse field, requiring a wide range of perspectives to understand our data; our field benefits tremendously from the infusion of new ideas. PGD members have the opportunity to lead the way in setting a new tone in science...we leave no geek behind.

I look forward to serving as your Chair throughout the coming year. I hope to see many of you in person this fall in Denver!

-Danielle Wyrick  
PGD Chair

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### ***GSA Student Advisory Council***

At the GSA Student Advisory Council Meeting (SAC) last year in Baltimore it was announced that the Chair of the student advisory council would become a voting member of the GSA council. The SAC meeting also discussed how best to engage and retain student members and we welcome any comments or suggestions from PGD members regarding this. At the end of the meeting the PGD representative to SAC (Hannah Susorney) was elected as the current chair and will be attending future GSA council meetings. If you have any concerns or ideas about how GSA can better serve its large and growing student membership, please email Hannah at [hsusorn1@jhu.edu](mailto:hsusorn1@jhu.edu).

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### ***Upcoming 2016 Annual Meeting***



Mark your calendars for the 2016 GSA Annual Meeting in Denver, Colorado from September 25-28.

Abstract submission is not yet open, but the first announcement can be viewed here:

<http://www.geosociety.org/meetings/2016/>

Deadlines to propose a Technical Session and Short Course are due **February 1, 2016** (see the details and links below for more information). Abstracts are due **July 12, 2016**, and early registration and student travel grants are due **August 22, 2016**.

Call for Technical Session proposals: Help ensure that your area of research and expertise is represented in next year's technical program. Any individual or geosciences organization is welcome to suggest topics and submit proposals for both Topical Sessions and Pardee Keynote Symposia. Pardee Symposia are high-profile sessions on significant scientific developments, with invited speakers only. Topical Sessions are a combination of invited and volunteered papers. Unique formats are allowed, but must be outlined in the proposal along with the technical support needs. Sessions that promote discussion are encouraged. **Due February 1, 2016.**

<https://gsa.confex.com/gsa/2016AM/cfs.cgi>

Call for Short Course proposal: Have something that your peers need to know? Lead a Short Course at the GSA 2016 Annual Meeting in Denver. Courses can be run to develop professional, teaching, and research skills at all levels. **Due February 1, 2016.**

<http://www.geosociety.org/meetings/scProposals.htm>

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## *Notes from the 2015 GSA Annual Meeting in Baltimore, MD*

The 2015 annual GSA meeting was held in Baltimore, Maryland November 1-4. The meeting continues to be a major annual event for the PGD community.

Among the meeting highlights was the annual PGD banquet and celebration of **Matthew P. Golombek**, the recipient of the 2015 G.K. Gilbert Award, our division's highest honor. See Page 6 for more details.



Outgoing PGD chair **Debra Buczkowski** (JHU Applied Physics Lab) presenting G. K. Gilbert award plaque to **Matthew P. Golombek** (Caltech/Jet Propulsion Laboratory) at the 2015 PGD banquet in Baltimore.

Our division also continued the tradition of hosting a booth in the Exhibition Hall where we sold planetary-related gear and held daily meteorite raffles. Staffed by PGD officers throughout the conference poster sessions, the booth constitutes our chief fundraising effort for the year and is the primary means by which our division pays for student travel awards to the annual GSA meeting. Providing exemplary students the means to present their best work at a national conference is a powerful career development

tool, and we look forward to continuing to support their endeavors. **Please share with us any feedback you might have about the booth!**



Exhibition Hall booth at GSA 2015 in Baltimore.

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## *2015 Award Recipients*

### *2015 Dwornik Award*

The judging panel at the 46<sup>th</sup> LPSC had its hands full with another crop of outstanding entries for the 2015 Dwornik Prize - we received 44 entries for the oral presentations (41 grads, 3 undergrads) and 84 entries for poster presentations (65 grads, 19 undergrads). The PGD officers would like to thank all of our members who attended the 45<sup>th</sup> LPSC and assisted in judging for the 2015 Dwornik awards. It would simply not be possible to judge the student awards without the help of our volunteers.

The 2015 Dwornik winners are:

*Best Graduate Oral Presentation:* **Robert E. Jacobsen**, University of Tennessee, "Wet-to-dry Hydrological Transition Encapsulated in Fluvial Stratigraphy of Aeolis Dorsa, Mars."

*Honorable Mention, Graduate Oral:* **Alison R. Santos**, University of New Mexico, “Petrology of Iron, Titanium, and Phosphorus Rich Clasts within Martian Meteorite Northwest Africa 7034.”

*Best Graduate Poster:* **Hannah C. M. Susorney**, Johns Hopkins University, “The Surface Roughness of Mercury: Investigating the Effects of Impact Cratering, Volcanism, and Tectonics.”

*Honorable Mention, Graduate Poster:* **Jessica A. Watkins**, UCLA, “Role of Hydrated Silicates in Long-Distance Transport of Landslides in Valles Marineris, Mars.”

*Best Undergraduate Oral:* **Jonathan Oulton**, Florida State University, “Chemical Evidence from Gujba for Differentiation and Evaporation/Recondensation Processes During the CB-Impact Event.”

*Honorable Mention, Undergraduate Oral:* **Roger J. Michaelides**, Cornell University, “Titan’s Empty Lake Basins: Constraining Surface Physical Properties by Investigating Radar Backscatter Behavior at Multiple Incidence Angles.”

*Best Undergraduate Poster:* **Hank M. Cole**, Colorado School of Mines, “The Anatomy of a Wrinkle Ridge Revealed in the Wall of Melas Chasma, Mars.”

*Honorable Mention (Undergrad Poster):* **Amanda Stadermann**, Washington University in St. Louis, “Revisiting the Youngest Mare Basalts on the Moon: Analysis of Primary and Secondary Crater Distributions in the Region South of Aristarchus Crater.”

Background: The Dwornik Award was established in 1991 with a generous

endowment by Dr. Stephen E. Dwornik, who wished to encourage students who are U.S. citizens to become involved with NASA and planetary science. Applicants for this award must be a U.S. citizen that is currently enrolled as a student at a U.S. or international institution, or a non-U.S. citizen currently enrolled as a student at a U.S. institution. The award consists of a plaque and a \$500 check (graduate) / \$250 check (undergraduate), and is given for those student presentations (poster and oral) at the annual *Lunar and Planetary Science Conference* (LPSC) hosted by the Lunar and Planetary Institute and NASA Johnson Space Center in Houston, Texas that are judged to be of the highest caliber. The deadline for entry is **January 13, 2016**, which is the day after LPSC abstracts are due.

### ***2015 Shoemaker Award***

The 2015 Shoemaker Award was presented to **James T. Keane**, *University of Arizona*. Mr. Keane proposes to model the rational dynamics of the Moon as it was affected by a series of impacts during the basin-forming epoch. This work will expand his analysis of the South Pole-Aitken basin impact event published in *Geophysical Research Letters* last year (*Keane and Matsuyama, 2014*).

The Eugene M. Shoemaker Impact Cratering Award 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 will include \$2500, is to be applied for the study of impact craters, either on Earth or on the other solid bodies in the solar system. Areas of study may include but shall not necessarily be limited to impact cratering processes; the bodies (asteroidal or cometary) that make the impacts; or the geological, chemical, or biological results of impact cratering.

## ANNOUNCING THE 2015 G.K. GILBERT AWARD WINNER

*Dr. Matthew P. Golombek, NASA Jet Propulsion Laboratory*



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), W. Hartmann (2004), L. Wilson (2005), M. Gaffey (2006), M. Zuber (2007), P. Christensen (2008), R. Strom (2009), C. Pieters (2010), S. Squyres (2011), P. Schultz (2012), A. Howard (2013), B. McKinnon (2014).

The 2015 G. K. Gilbert awardee is **Dr. Matthew P. Golombek**, NASA Jet Propulsion Laboratory.

*“Matt Golombek could arguably be a martian. More than any other earthling, he knows the red planet’s surface – its rocks and regolith, its craters and dunes, its hills and chasms, its dust devils and sunsets – all from rover’s-eye views. Over the past two decades, Matt’s signature achievement has been as a leader in rover mission design and operations: as the Project Scientist for Mars Pathfinder, as Science Operations Working Group Chair, Geology Theme Group Lead, and now Project Scientist for the Mars Exploration Rovers, , and most recently as Geology Co-Investigator for InSight. Exploring geologic locales on the ground using rover-mounted instruments is fundamentally different from orbital planetary science, and Matt has been instrumental in guiding the rest of us through this transition.”* – Excerpt from Citation by Hap McSween

Matt earned an A.B. in Geology from Rutgers College in 1976, M.S. in Geology/Geophysics from the University of Massachusetts (1978) and a Ph.D. in Geology/Geophysics from the University of Massachusetts (1981).

### ***2015 Pellas-Ryder Award***

The Pellas-Ryder award is given to the Planetary Science Best Student Paper published during the preceding year. The award is jointly given by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America and consists of a check for \$500 from the Meteoritical Society and a plaque awarded by the PGD.

The 2015 Pellas-Ryder award was presented to **Steven Battaglia**, *Northern Illinois University*, for an outstanding publication in a major peer-reviewed journal on a topic of significant importance, and for the perseverance to see it published.

“Io’s theothermal (sulfur) - Lithosphere cycle inferred from sulfur solubility modeling of Pele’s magma supply,” published in *Icarus*, 235, 123-129, 2014.

### ***2015 Ronald Greeley Award for Distinguished Service***



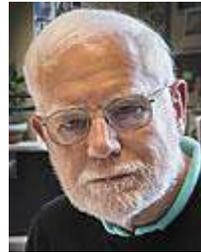
**Michael S. Kelley**, *NASA Headquarters*, was awarded the 2015 Ronald Greeley Award for Distinguished Service. Dr. Kelley has dedicated many years of service to the planetary

community as a NASA program officer, and has been a strong advocate for continued support of critical NASA-funded facilities, including the NASA Ames Vertical Gun Range (AVGR), the NASA Planetary Aeolian Laboratory (PAL), and the Keck/NASA RELAB (Reflectance Experiment Laboratory).

This award may be given to those members of the PGD, and those outside of the Division

and GSA, who have rendered exceptional service to the PGD for a multi-year period.

### ***2015 Penrose Medal***



The 2015 Penrose Medal was presented to **James W. Head**, *Brown University*. Nominated by Dr. Carle Pieters based on Dr. Head's "exceptional and rare talent for interweaving important

principles of geologic assessment with discovery and exploration brought by space-age technology." Dr. Head has been involved in planetary science from the Apollo era to the present, contributing significantly to the understanding of several planetary bodies in our solar system.

The Penrose Medal was established in 1927 by R.A.F. Penrose, Jr., to be awarded in recognition of eminent research in pure geology, for outstanding original contributions or achievements that mark a major advance in the science of geology.

### ***2015 GSA President’s Medal***



The 2015 GSA President’s Medal was awarded to **Steven Squyres**, *Cornell University*. The President’s Medal of the Geological Society of America, commissioned in 2007, will

be conferred only on individuals, groups, or entities whose impact has profoundly enhanced the geoscience profession through: (a) supporting and contributing to the Society; (b) advancing geosciences, enhancing professional growth, and/or promoting geosciences in service of humankind; or (c) significantly enlarging the range of scientific achievement for the growth of our profession.

## ***PGD-Affiliated GSA Fellows***

We are pleased to announce that several PGD members were selected as GSA Fellows in 2015.

**R. Aileen Yingst**, *Planetary Science Institute*. Dr. Yingst was nominated by Jayne C. Aubele for her significant research in planetary geology, leadership roles in multiple planetary missions, work in training the next generation of planetary geoscientists, and for her work in contributing to the public awareness of planetary geoscience.

**Rosalyn M. C. Lopes**, *Caltech/Jet Propulsion Laboratory*. Dr. Lopes was nominated by Susan W. Kieffer because of her significant contributions to understanding geological processes on satellites in the Outer Solar System including the surface and interior of Io, a satellite of Jupiter, and on the surface of Titan, a satellite of Saturn.

**William McKinnon**, *Washington University* in St. Louis, was elected to Fellowship as the Planetary Geology Division's 2014 Gilbert Award recipient. Professor McKinnon has made contributions to planetary science that span the Solar System from Mercury to Pluto and beyond. His body of work on the icy satellites through his own lengthy record of contributions and by further contributions through the work of his students has played a huge role in bringing the icy worlds to the forefront of our scientific curiosity and exploration interest. In addition, his activities in service to the research and educational endeavors demonstrate a deep and sustained commitment to the advancement of planetary and solar system science.

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

**Student Advisory Member**: The Planetary Geology Division (PGD) of the Geological Society of America is soliciting nominations for the position of Junior Student Advisor to the PGD. This position is open to all interested graduate and undergraduate students, offering students an opportunity to actively engage with the PGD officers and the planetary community in an important role on this service committee. Responsibilities include participating in regularly scheduled PGD telecons, updating the "Student Opportunities" page on the PGD website, helping with the PGD booth during the annual meeting, and serving as the PGD representative to the GSA Student Advisory Council. This is a two-year position (second year as Senior Student Advisor), and includes a travel award to attend the annual GSA meeting each year. Interested students should send a current CV (include college major and advisor) and a short justification (~300-500 words) on why they would be interested in serving as Student Advisor. Please send completed application materials as a single pdf file to PGD 1<sup>st</sup> Vice-Chair James Wray ([jwray@gatech.edu](mailto:jwray@gatech.edu)) by **June 1, 2016**.

**Dwornik Award**: This award is now open for U.S. citizens that are currently enrolled as students at a U.S. or international institution, or non-U.S. citizens currently enrolled as a student at a U.S. institution. The application form to apply for a Dwornik Award is due **January 13, 2016**. More information can be found [here](http://geosociety.org/pgd/awards.html): <http://geosociety.org/pgd/awards.html>. Questions regarding the Dwornik awards should be directed to 2nd Vice-Chair Brad Thomson ([bjt@bu.edu](mailto:bjt@bu.edu)).

Due to the advent of the undergraduate awards, the Dwornik fund is no longer self-

sustaining. We hope the fund will continue to grow and provide new opportunities, and thus encourage your donations. You can donate at: <http://www.gsafweb.org/makeadonation.html>

In addition, anyone interested in serving as a judge for the Dwornik competition at this year's LPSC please note that there is now a place on your LPSC abstract submission form where you can indicate your willingness. Thanks in advance!

**Pellas-Ryder Award**: 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. The deadline for nominations is **January 31, 2016**. See this link for more details:

<http://geosociety.org/pgd/awards.html>

To nominate papers published for next year, contact the Past Chair Debra Buczkowski ([debra.buczkowski@jhuapl.edu](mailto:debra.buczkowski@jhuapl.edu)).

**Ronald Greeley Award**: All members are encouraged to submit nominations for the Ronald Greeley Award for Distinguished Service. This award was established in 2011 as the PGD Distinguished Service Award, and in 2012 the PGD membership voted to change the name to commemorate Ronald Greeley and his contributions to the Planetary Geology Division. This award may be given to those members of the PGD, or those outside of the Division and GSA, who have rendered exceptional service to the PGD over a multi-year period. The award is not open to currently serving Division officers, but may be awarded to past officers who have provided exceptional service to the PGD after their term on the Management Board has ended. *Nominations for the award, which should include a description of what the nominee has given to the PGD community, may be made by any PGD member to 1<sup>st</sup> Vice-Chair James Wray ([jwray@gatech.edu](mailto:jwray@gatech.edu)) prior*

*to **June 30, 2016***. Approval of the award will be by majority vote of the Management Board. The award consists of a certificate signed by the Chair, and will be presented at the Division's Business Meeting/Awards Reception at the Annual Meeting.

**Eugene M. Shoemaker Award**: Dr. Carolyn Shoemaker established the Eugene M. Shoemaker Memorial Fund for Crater Studies in memory of her husband in 1998. She established this endowment so that students will have an opportunity to pursue studies of impact craters, which were the focus of her husband's graduate studies and a large part of his professional career. Friends, scientific colleagues, and companies have contributed to the fund (and continue to do so) to ensure its success.

The Shoemaker Impact Cratering Award 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 will include \$2500, is to be applied for the study of impact craters, either on Earth or on the other solid bodies in the solar system. Areas of study may include but shall not necessarily be limited to impact cratering processes; the bodies (asteroidal or cometary) that make the impacts; or the geological, chemical, or biological results of impact cratering. *Applications are due **early September 2016**, and must include a CV, research proposal, timeline and budget, and two letters of recommendation.* For more details and to access the online application forms, go to:

[http://www.lpi.usra.edu/science/kring/Awards/Shoemaker\\_Award/](http://www.lpi.usra.edu/science/kring/Awards/Shoemaker_Award/). Questions regarding this award should be directed to David Kring, ([kring@lpi.usra.edu](mailto:kring@lpi.usra.edu)). The Planetary Geology Division officers strongly encourage all of our Division members to

actively recruit promising students to apply for this prestigious award.

**Student Travel Grants:** As in recent years, the PGD is offering two travel grants to help defray costs for PGD student members who are traveling to the GSA Annual Meeting to present first-authored papers. Applicants for student travel awards must:

1. Be first author and presenter of a paper that has been submitted to (and accepted for presentation at) the GSA Annual Meeting.
2. Be a Student Member of both GSA and the Planetary Geology Division.
3. Be registered for the meeting before applying for a travel grant.
4. Submit a completed Travel Grant Application, current CV, and a short justification (~300-500 words) for why travel funding is needed.

Checks will be presented at the meeting, following the student's talk or poster. The Application Form and more information is available at:

[http://rock.geosociety.org/pgd/awards.html#\\_travel](http://rock.geosociety.org/pgd/awards.html#_travel).

Completed application materials should be *submitted as a single PDF file*, due **September 19, 2016**, to PGD 2nd Vice-Chair Bradley Thomson ([bjt@bu.edu](mailto:bjt@bu.edu)).

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### ***Membership and Finance***

We continue to have a strong membership base despite a slight decrease in the number of division affiliates as of August, 2015. Please remember to renew your membership at GSA annual renewal time and encourage your colleagues to join. Division dues are: student, recent graduate, or K-12 teacher: \$5, Professional member: \$10.

According to GSA policy, students can join their first division at no cost. Having a vibrant student membership is wonderful and vital for the future, but the immediate trade-off is reduced revenue. Recall that the principal annual expenditure of our division is our general student travel awards. Help us sustain a strong division by renewing, asking others to join, and volunteering. Thanks for your support!

<b>Number of division affiliates</b>	<b>Year</b>
774	Aug 2015
828	Aug 2014
659	Aug 2013
670	Aug 2012
620	Aug 2011
577	Aug 2010

**Financial summary:** As of December 31, 2015, PGD has an asset balance of \$15,814. Our revenue was \$11,083 consisting of \$2,161 in division dues, \$3,875 in banquet tickets at the annual meeting in Baltimore, and \$5,047 from the 2015 GSA booth (our main fundraising mechanism). We also expect some further income from late renewals. Expenses during this period were \$11,861, including \$1,500 in student awards, \$4,242 in catering for the annual banquet, \$489 for conference service expenses, \$175 for banquet honorees, and \$263 for award plaques. In 2015 our outlays exceeded revenue by \$778, a difference largely accounted for by items purchased to restock our booth merchandise such as new t-shirts – a large capital expenditure that will continue to pay dividends in the future.

***We need your help!***

This would be a great time to make a contribution to the Dwornik, Shoemaker, G. K. Gilbert or student travel grant funds! Unlike many other charitable donations, your donation to these funds will produce positive results you can see for yourself as you encourage and support planetary scientists, both current and future. Donations can either be made online (<https://www.gsafweb.org/donate/>) or by mail. If by mail, please include a check or money order, made payable to *Planetary Geology Division, GSA*.

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

<i>The Dwornik Fund</i>	amount \$(_____)
<i>The Shoemaker Fund</i>	amount \$(_____)
<i>The G. K. Gilbert Fund</i>	amount \$(_____)
<i>PGD Student Travel Grants</i>	amount \$(_____)

**WHEN MAKING A DONATION, PLEASE INCLUDE THIS DONATION FORM AND PAYMENT CHECK IN AN ENVELOPE AND MAIL THEM TO:**

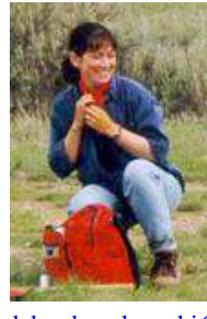
The Geological Society of America  
P.O. Box 9140  
Boulder, CO 80301-9140.

**Need more information about PGD? Check out our website:**  
<http://rock.geosociety.org/pgd/index.htm>

## 2015-2016 Division Officers



**(Chair) Wyrick, Danielle Y.** Research Interests: structural geology, tectonic/ volcanic interaction, fluid and gas migration through fractured reservoirs, analog field investigations of Mars. Affiliation: Southwest Research Institute, San Antonio, TX 78247; [danielle.wyrick@swri.org](mailto:danielle.wyrick@swri.org)



**(Past Chair) Buczkowski, Debra L.** Research Interests: structural geology, tectonics and geologic mapping of terrestrial planets and asteroids (Mars, Venus, Mercury, Eros, Vesta and Ceres); spectral analysis of Mars. Affiliation: Johns Hopkins University Applied Physics Laboratory, Laurel, MD 20723; [debra.buczkowski@jhuapl.edu](mailto:debra.buczkowski@jhuapl.edu)



**(First Vice-Chair) Wray, James J.** Research Interests: chemical/ mineralogical composition, morphology, and stratigraphy of solid surface planetary bodies, focusing on Mars and icy satellites of Jupiter and Saturn. Affiliation: School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA 30332; [jwray@gatech.edu](mailto:jwray@gatech.edu)



**(Senior Student Advisory Member) Susorney, Hannah C. M.** Research Interests: Impact cratering, surface roughness. Affiliation: Earth and Planetary Science, Johns Hopkins University, Baltimore, MD, 21218; [hsusorn1@jhu.edu](mailto:hsusorn1@jhu.edu)



**(Second Vice-Chair) Thomson, Bradley J.** Research Interests: Mars surface geology, lunar radar, physical properties measurements, regolith evolution, geologic mapping, Venus shield fields. Affiliation: Center for Remote Sensing, Boston University, Boston, MA 02215; [bjt@bu.edu](mailto:bjt@bu.edu)



**(Junior Student Advisory Member) Lapotre, Mathieu G. A.** Research Interests: planetary surface processes, fluid mechanics, sediment transport, and spectroscopy. Affiliation: California Institute of Technology, Division of Geological and Planetary Sciences, Pasadena, CA 91125; [mlapotre@caltech.edu](mailto:mlapotre@caltech.edu)



**(Secretary-Treasurer) Wilson Purdy, Sharon A.** Research Interests: Mars geology, geomorphology, landscape evolution, climate history and geologic mapping. Affiliation: Center for Earth and Planetary Studies, Smithsonian National Air and Space Museum, Washington, DC 20013; [purdys@si.edu](mailto:purdys@si.edu)