Greetings to members of the Planetary Geology Division (PGD) of GSA! As the summer winds down, it means that the Aug. 14 abstract deadline is looming for the 2018 GSA Annual Meeting, which will be held on Nov 4-7, 2018 in Indianapolis, IN. Your
fellow officers and I have been working to assemble a number of topical sessions that we hope will be of interest. A full list is provided in this newsletter, but I wanted to call special attention to a few here.

At this year’s GSA Annual Meeting, there will be three special sessions dedicated to members of our community. These individualized sessions constitute one of the interesting differences between GSA and our sister organization, AGU: by long-standing tradition, sessions dedicated to an individual are disallowed from AGU, and they are also not permitted at LPSC. In contrast, such sessions are welcome at GSA. There will be three such sessions sponsored by our division this year. The first is “The G.K. Gilbert Award Session: Planetary Surface Processes from Mars to the Outer Solar System.” This session will honor the contributions of the 2018 G.K. Gilbert awardee, Dr. Jeffrey M. Moore (NASA Ames). The second and third such sessions dedicated to the memory and contributions of our departed colleagues Prof. Larry Taylor (UTK) and Dr. Nathan Bridges (JHU/APL). These sessions are entitled, respectively, “Planetary Mantles—Using Samples to Explore Earth, the Moon, and Mars: Memorial Session in Memory of Lawrence A. Taylor” and “Planetary Aeolian Geology from Outcrop to Orbit: Nathan Bridges Memorial Session.” I hope you will consider presenting at or attending some or all of these sessions. Please contact the session organizers if you have any questions or requests.

Looking ahead, our community anticipates another busy fall with the expected arrival of the OSIRIS-Rex and InSight spacecraft. InSight is expected to land on Mars at Elysium Planitia on 26 November, 2018. OSIRIS-Rex is slated to arrive at the asteroid 101955 Bennu on December 3, 2018 following a series of braking maneuvers. Exciting times lie ahead!

Finally, there is an upcoming renewal in the works for one of the most successful, longest-running undergraduate research programs for NASA-related research, one that has an unwieldy name: PGGURP. Short for NASA's Planetary Geology and Geophysics Undergraduate Research Program (PGGURP), this long-standing program has been administered by Prof. Tracy Gregg at the University of Buffalo on behalf of the Planetary Geology and Geophysics (PG&G) program for many years. Tracy was the 2016 winner of the PGD Distinguished Service award in large measure for her tireless work overseeing this program For those that may not know about it, the idea of PGGURP was that any Principal Investigator (PI) of a PG&G award could post a solicitation to host a summer undergraduate research intern at their home institution. These requests would be vetted by Tracy and then matched with student applicants. Support for the interns was provided by the PG&G program, not the individual PI awards, meaning that the summer interns came at no additional cost to the PIs. Since PG&G is now under the Solar System Workings (SSW) umbrella, there is an on-going collaboration between PGGURP and SSW to make sure that PGGURP continues (no word yet on if the name will change to SSWURP.) PGGURP’s mission continues to be to inspire the next generation of planetary scientists, and to provide research aid to our valued NASA-funded PIs. Many details remain to be ironed out, but it is not an understatement to say there is near-universal support for this highly successful program, and a strong desire to see it continue. We wish Tracy well in her continued efforts.

Lastly, although we do not often exercise this avenue, I would like to gently remind our
community that the PGD and GSA are organizations that are here to advocate for your concerns, including those relevant to both students and professionals. If you feel there is a topic that we should be addressing, please let us know! (bthom@utk.edu; full officer list at: http://rock.geosociety.org/pgd/officers.html)

Kind regards,

Bradley Thomson

The PGD at LPSC

The PGD set up a booth at LPSC this year to raise awareness that one of our major volunteer tasks is coordinating the annual Dwornik Awards. We had a great time talking with members, future members, and students who were interested in pursuing internship or graduate opportunities. We distributed copies of the “student opportunities” list curated on our website by your PGD student representatives Elena Favaro and Kelsey Crane, which was really well received.

In addition to giving away mission swag, we handed out the winning button design from our very first PGD Button Design Contest! We have a few buttons left that will be available at the PGD booth in Indianapolis, IN during the Fall Annual Meeting of GSA. For our 2019 button, we plan to continue our presence at LPSC, so we would look forward to hearing your feedback about the LPSC PGD booth!

PGD 2019 Button Design Contest

Our 2018 PGD Button Design Contest was a big hit at LPSC this year, so we will hold a new button design contest for the 2019 PGD buttons! This is your chance to get creative and show us what you think should be on next year’s button. Rules for submissions include: (1) Design must be completed within a 6 cm diameter circle. (2) Letters “PGD” and year “2019” must be included as a central feature in the artwork. (3) Group submissions are acceptable. (4) Any media/software can be used as long as the scanned image sent to the PGD is clear. Additional details: Submission must include brief biographical information about the artist, a brief (500 character limit) description of the artwork, a PDF of the artwork and a JPEG (min 600 dpi) of the artwork. All submissions must be sent to kelsey.crane@uga.edu by 5pm EST February 1, 2019. All PGD members may vote from the semi-finalists’ buttons (as determined by PGD officers) starting February 5, 2019. The winner will be announced February 12, 2019.

Upcoming 2018 Annual Meeting

The 2018 GSA Annual Meeting will be held in Indianapolis, IN November 4-7. The
abstract submission period is now open and closes on August 14th at 11:59 PDT. More information can be found here:  
http://community.geosociety.org/gsa2018/science-careers/sessions/abstracts

We anticipate another busy and exciting GSA with a great lineup of Planetary Geology topical sessions (listed below). Keep your eye on the GSA 2018 home page for more information about registration which is now open:  
http://community.geosociety.org/gsa2018/home

The Planetary Geology Division Banquet

Join us at the Rock Bottom Restaurant & Brewery on Tuesday, November 6th at 7:00 pm for our annual banquet. Tickets for the meal can be purchased at the time you register for the meeting will not be available at the door. Student tickets are $30 and Professional tickets are $55. The number of student tickets is limited—once they are sold out only professional tickets will be available. Rock Bottom is located at 10 W Washington St, Indianapolis, IN and is an easy 7 minute walk (0.3 mi) from the Indiana Convention Center.

PGD Exhibition Hall Booth

Our division looks forward to continuing the tradition of hosting our booth in the Exhibition Hall where we sell planetary-related gear and have daily meteorite raffles. This year we plan to have merchandise including t-shirts, new toddler and youth t-shirts featuring Stuart Robbins’ Pluto design, tote bags, as well as spacecraft earrings, meteorites and assorted toys.

Staffed by PGD officers throughout the conference, 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 any feedback you might have about the booth!

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 (2 page max), 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 are available at:  
http://rock.geosociety.org/pgd/travel-grants.html

Completed application materials should be submitted as a single PDF file, due Tuesday, August 21st, 2018, to PGD 2nd Vice-Chair Emily Martin (martines@si.edu).
Proposed PGD Sponsored Sessions at the 2018 Annual GSA Meeting:

T51. Planetary Aeolian Geology from Outcrop to Orbit: Nathan Bridges Memorial Session. Kirby D. Runyon, Bradley J. Thomson. Honoring the life and legacy of Dr. Nathan Bridges, this session traces the theme of wind-blown sediment and its effects across the solar system from a processes perspective. Submit an abstract to this session.

T143. The Age of Small World Exploration: Major Results from Minor Planets and Other Small Solar System Bodies. Kynan H.G. Hughson, David A. Williams. Understanding “small worlds” like asteroids, comets, and the comparatively large dwarf planets is key to understanding the nature of our solar system. We welcome abstracts related to geologic, geophysical, and compositional analyses of “small worlds.” Submit an abstract to this session.

T144. Friends of Hoth: Episode III—Bodies of the Outer Solar System. Emily S. Martin, D. Alex Patthoff. We encourage abstracts relating to surface, structural, and tectonic processes; interior and thermal evolution; and planetary analogs as they pertain to solid bodies in the outer solar system. This includes experimental, observational, and theoretical approaches. Submit an abstract to this session.

T145. Apollo 17 Forty-Five Years on: Reanalysis of the Geochemistry, Geophysics, and Field Geology in Light of Data from the Lunar Reconnaissance Orbiter and Other Recent Missions. Noah E. Petro, Jacob E. Bleacher, C.R. Neal, H.H. Schmitt. Forty-five years since the Apollo 17 mission to the Taurus-Littrow Valley, the analysis of the samples, interpretation of surface measurements, and field observations are being revisited in the context of newly acquired remote sensing data. Submit an abstract to this session.

T146. Geomorphology and Landscape Evolution of Mars. Sharon Wilson Purdy, James J. Wray, Elena Favaro. We welcome abstracts focusing on fluvial, alluvial, and lacustrine landforms using orbital and (or) rover data to investigate the geomorphology and geology of Mars, as well as related Earth analogue studies. Submit an abstract to this session.

T147. Planetary Mantles—Using Samples to Explore Earth, the Moon, and Mars: Memorial Session in Memory of Lawrence A. Taylor. Clive R. Neal, Molly C. McCanta, Amy L. Fagan, Bradley J. Thomson. Comparative planetology through the study of terrestrial, lunar, and martian mantles. Submit an abstract to this session.

T148. Radar & Microwave Remote Sensing of Desertic and Planetary Environments. Essam Heggy, Bradley J. Thomson, G. Wesley Patterson. This session will discuss advances on the geomorphic and geophysical properties of desertic and planetary environments as revealed from radar and microwave remote sensing techniques, addressing questions on volatiles occurrence, surface dynamics, subsurface characterization, and paleoclimatic changes. Submit an abstract to this session.

T149. Volcanism and Tectonism on Planetary Bodies. Paul K. Byrne, Christian Klimczak. This session solicits abstracts on volcanic and tectonic landforms and processes on solar system bodies and extrasolar worlds, encompassing surface geology, interior and thermal evolution, and comparative planetary studies with observational, experimental, or theoretical approaches. Submit an abstract to this session.
Impact cratering is a dominant process across the solar system influencing a planet's geology and evolution. The session focuses on impact flux, geologic and geophysical implications of impacts, and geochemistry recorded in ejecta and insight provided for the bolide. Submit an abstract to this session.

The G.K. Gilbert Award Session: Planetary Surface Processes from Mars to the Outer Solar System. James J. Wray, Sharon A. Wilson, Bradley Thomson. This session will honor the 2018 winner of the Planetary Geology Division's G.K. Gilbert Award, highlighting recent contributions in the awardee's field of research. Submit an abstract to this session.

Grain to Global Perspectives of Mars: Evolving Views of the Martian Sedimentary Rock Record. Briony Horgan, Samantha Gwizd, Rachel E. Kronyak, Vivian Sun. This session synthesizes recent research on the origin, deposition, and alteration of sediments on Mars. We seek contributions investigating the stratigraphy, chemistry, and mineralogy of Mars' sedimentary record using rover, orbital, and terrestrial analog data. Submit an abstract to this session.

Voyages to Ocean Worlds throughout the Solar System. Jennifer E.C. Scully, Debra L. Buczkowski. Ocean worlds are intriguing planetary bodies. We welcome abstracts related to geologic, geophysical, and/or compositional analyses of ocean worlds, through the use of spacecraft data, telescopic observations, modeling studies, laboratory investigations, and/or comparative studies. Submit an abstract to this session.

Coordinated Microanalysis As a Tool for Increasing the Scientific Yield of Returned Planetary Materials. Jessica J. Barnes, Michelle Thompson. Maximizing the scientific yield from samples returned by space missions is essential. This session will showcase how coordinated microanalysis of planetary materials is currently done, what the current state-of-the-art is, and future avenues for improvement. Submit an abstract to this session.

Geology and Geophysics of the Eratosthenian and Copernican Moon. Debra H. Needham, Caleb I. Fassett, Renee C. Weber. This session will cover a wide range of investigations of the recent and current Moon, including current lunar seismicity, possible recent volcanic activity, recent tectonism, impacts and impact processes, and development of the lunar regolith. Submit an abstract to this session.

Features, Processes, and Emplacement of Melted Rock on the Earth and Planets. Jacob E. Bleacher, Andrew P. de Wet, Sarah A. Fagents. The emplacement of silicate melts can create a diverse set of features, which provide insights into past eruption and impact conditions as well as paleo-environments on the Earth and the planets. Submit an abstract to this session.
2018 Award Recipients

2018 Dwornik Award
The Dwornik Award was endowed by Stephen E. Dwornik in 1991 to encourage students in the field of planetary science. The Dwornik Award originally acknowledged the best oral presentation at both LPSC and GSA, with the winners traveling to Washington, DC to accept their award. Due to the overwhelming number of planetary-related presentations at LPSC relative to GSA, the award later became a LPSC-only competition but expanded to include honorable mentions and poster presentations. A brief biography of Stephen Dwornik’s influential career can be found on our Dwornik Award webpage: http://rock.geosociety.org/pgd/dwornik.html.

Nearly 150 judges at the 49th LPSC worked hard to judge another outstanding group of entries for the 2018 Dwornik Prize—we received 50 entries for the oral presentation (42 grads, 8 undergrads) and 70 entries for poster presentations (44 grads, 26 undergrads). The PGD would like to thank all of our members who judged students. Without your help, we would not be able to honor our students! Please remember to sign up to judge Dwornik award presentations at the 2019 LPSC!

The 2018 Dwornik winners are:


Graduate Poster: Daniel Dunlap, Arizona State University, “Pb-Pb Age of the ungrouped achondrite NWA 11119: Timing of extraterrestrial silica-rich volcanism.”

Honorable Mention—Grad Poster: Ellen Leask, California Institute of Technology, “New possible CRISM artifact at 2.1 micrometers and implications for orbital mineral detections.”

Undergraduate Oral: Jordan Bretzfelder, University of Southern California, “Divining the Lunar mantle: Spectral analysis of the Imbrium Basin”

Honorable Mention—Undergrad Oral: Aleksandra Gawronksa, University of Notre Dame, “Implications of bimodal olivine compositions in VHK basalts.”


Honorable Mention—Undergrad Poster: Charlene Detelich, North Carolina State University, “Investigating the morphology of the Iapetus Equatorial Ridge.”

2018 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 includes a $500 award from the Meteoritical Society and a plaque awarded by the PGD.

This year’s Pellas-Ryder award was awarded to Emily Worsham, currently a postdoc at the University of Muenster, for her paper titled “Characterizing cosmochemical
materials with genetic affinities to the Earth: Genetic and chronological diversity within the IAB iron meteorite complex.” In this paper, Worsham combined the use of very high precision isotopic measurements of three elements (Os, W and Mo) to characterize and subdivide the second largest grouping of iron meteorites, the IAB complex. This is the first application of all three isotopic tracers to characterize the formational history of the second largest grouping of iron meteorites, and it has important implications for understanding asteroids and their relationship to Earth's own evolution. Congratulations Emily!


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**Call for Applications & Nominations**

**Student Advisory Member:** The Planetary Geology Division (PGD) of the Geological Society of America has selected a new student advisor, Mallory Kinczyk, to the PGD Board. Welcome Mallory!

We welcome Mallory Kinczyk, PGD’s new Junior Student Advisor Member.

If you are a graduate or undergraduate student interested in an opportunity to actively engage with the PGD officers and serve the planetary community, consider applying for the position of Junior Student Advisor to the PGD next year. Responsibilities include participating in regularly scheduled PGD telecons, updating the Student Opportunities page on the PGD website ([http://rock.geosociety.org/pgd/student-opportunities.html](http://rock.geosociety.org/pgd/student-opportunities.html)), 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 partial travel award to attend the annual GSA meeting each year. Application materials include a current CV (include college major and advisor) and a short justification (~300-500 words) on why the student would be interested in serving as Student Advisor. Please send completed application materials in a single pdf file to upcoming PGD 1st Vice-Chair Emily Martin.
Additional details will be posted on the PGD website http://rock.geosociety.org/pgd/student-advisors.html.

**Ronald Greeley Award for Distinguished Service:** The PGD is now accepting nominations for the 2019 Ronald Greeley Award for Distinguished Service, and all members are encouraged to submit nominations. The 2018 award will be announced shortly. 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 prior to June 30, 2019. 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 $3000, 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 September 7, 2018, 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/.

Questions regarding this award should be directed to Dr. David Kring, (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.

**Upcoming Meetings & Workshops**

**Lunar Polar Volatiles Workshop:** The Lunar Polar Volatiles meeting will be held August 7–9, 2018, in the Laurel, Maryland, at the Johns Hopkins University, Applied Physics Laboratory. This meeting will be a combined SSERVI-LRO meeting to discuss the state of knowledge on volatiles in the lunar polar regions. We will bring together experts in the areas of data analysis,
modeling, instrumentation, and laboratory research from the SSERVI and LRO communities as well as experts outside these communities. For more information, see [http://www.hou.usra.edu/meetings/lunarvolatiles2018/](http://www.hou.usra.edu/meetings/lunarvolatiles2018/).

**9th Planetary Crater Consortium:** The 9th Planetary Crater Consortium meeting will be held **August 8-10, 2018**, at the Southwest Research Institute in Boulder, CO. The Planetary Crater Consortium is open to all planetary scientists interested in any aspect of impact cratering on solar system bodies, including observational, theoretical, experimental, and numerical studies. Contributions on terrestrial impact crater field studies are encouraged, as well as presentations about cratering on other solar system bodies. The meeting is a combination of contributed talks, posters, and open discussion. Abstract deadline is **Wednesday, August 1, 2018**. For more information, see [www.planetarycraterconsortium.nau.edu/](http://www.planetarycraterconsortium.nau.edu/) or contact Nadine Barlow directly (Nadine.Barlow@nau.edu).

**Outer Planets Analysis Group:** The Outer Planets Assessment Group (OPAG) was established by NASA in late 2004 to identify scientific priorities and pathways for exploration in the outer solar system. The group consists of a 15-person steering committee, which actively solicits input from the scientific community and reports its findings to NASA Headquarters. OPAG is NASA's community-based forum designed to provide science input for planning and prioritizing outer planet exploration activities for the next several decades. It is chartered by NASA's Solar System Exploration Division and reports its findings at meetings of the Solar System Exploration Sub-Committee of the NASA Space Science Advisory Committee. Open to all interested scientists, OPAG regularly evaluates outer solar system exploration goals, objectives, investigations and required measurements on the basis of the widest possible community outreach. This year’s meeting is tentatively scheduled for **September 11-12, 2018** in Pasadena California. For more information, see [http://www.lpi.usra.edu/opag/](http://www.lpi.usra.edu/opag/).

**Bombardment: Shaping Planetary Surfaces and Their Environments:** Following planetary accretion there was an extended period of bombardment that may have been punctuated by one or more bursts of collisional activity. The largest impactors produced impact basins hundreds to thousands of kilometers in diameter, completely reshaping the surfaces of the rocky and icy planets. These types of events were not unique to our solar system. Debris disks produced by similar processes have been observed around other stars after they emerged from their natal gas-rich nebulae and up to several hundred million years after they formed.

This topical conference on Bombardment, the third in The First Billion Years series, is designed to investigate the range of collisional events from the late stages of terrestrial planet accretion to the end of the basin-forming epoch on the Moon. Although the Moon may be a central component of the conference due to its exquisitely preserved record, the discussion will necessarily include observations elsewhere, such as on the Hadean Earth, Mercury, Mars, the asteroid belt, outer solar system moons, and planetary systems elsewhere. Because the bombardment may have affected the origin and early evolution of life, discussion will also draw on astrobiological findings.

The topical conference will provide an opportunity to integrate several diverse components of the above topic and, ideally, force reconciliation between scientific fields...
that may have been exploring these processes independently. The conference will include an assessment of the geologic record of impact cratering throughout the solar system, cosmochemical constraints on any early bombardment, and dynamical models that might explain the flux of debris and potential changes in the flux of debris in our solar system and other planetary systems.

This meeting will be held September 30 – October 3, 2018 in Flagstaff, Arizona. For more information, visit http://www.hou.usra.edu/meetings/bombardment2018/.

**Late Mars Workshop:** The temporal and geographical scale of liquid water on early Mars is thought to have been much more ubiquitous and long-standing than it is today, as current boundary conditions exhibit extreme aridity, generally low atmospheric pressure, and mean temperatures largely below the freezing point of water. The observation of geologically recent gully-formation and -flow, the ephemeral but iterative presence of RSLs, as well as the widespread distribution of possible glacial and periglacial landscapes, suggest that liquid water may have played a much more dynamic, if not enigmatic, role in the Late Amazonian Epoch than might be expected. On the other hand, others suggest that CO2 or various dry processes are the only plausible agents of landscape change under current or relatively recent conditions.

This first Late Mars Workshop will be a discursive platform for the exchange of ideas, observations, and hypotheses among planetary scientists keen to explore and explain the recent evolution of the martian landscape. This includes discussions of landforms and/or geological processes (aeolian, volcanic, tectonic, etc.) that are not directly related to volatile cycles but that are part of the active martian geosphere. The workshop will comprise oral and poster sessions as well as panel and open-microphone exchanges.

The Late Mars Workshop will be held October 1–3, 2018 at the Lunar and Planetary Institute, in Houston, TX. For more information go to https://www.hou.usra.edu/meetings/latemars2018/.

**Europa Deep Dive 2: Composition:** The focus of the Europa Deep Dive 2: Composition workshop is to assess existing laboratory data and identify gaps where laboratory work is still needed; assess existing data on the Europa surface and exosphere; plan how to realize the needs for new data; encourage dialogue among laboratory, observational, and data-analysis communities; and foster collaborations among complementary laboratories.

The workshop will be highly interactive, and all attendees will be expected to participate in moderated discussion sessions. This will be the second in a series of workshops, each of which is designed to thoroughly examine one aspect of Europa’s geology, ocean, interior, ice shell, composition, space environment, or astrobiological potential. The workshops will bring together communities that may not routinely interact, with the aim of actively encouraging interdisciplinary discussion and input from all attendees.

The Europa Deep Dive 2: Chemical Composition of Europa and State of Laboratory Data workshop (#DeepDive2) scheduled for October 9–11, 2018 at the Lunar and Planetary Institute, in Houston, TX. For more information go to https://www.hou.usra.edu/meetings/europadive2018/.
The Venus Exploration Analysis Group: The Venus Exploration Analysis Group is NASA’s community-based forum designed to provide scientific input and technology development plans for planning and prioritizing the exploration of Venus over the next several decades. VEXAG is chartered by NASA’s Solar System Exploration Division and reports its findings to NASA. Open to all interested scientists, VEXAG regularly evaluates Venus exploration goals, scientific objectives, investigations, and critical measurement requirements, including especially recommendations in the NRC Decadal Survey and the Solar System Exploration Strategic Roadmap.

The 16th meeting of VEXAG will be held November 6-8, in Laurel, MD. For more information, https://www.lpi.usra.edu/vexag/


The theme for this year’s annual LEAG meeting is Progress and Preparation for Exploring the Moon.

The Annual Meeting will be preceded by a special one-day LEAG/SSERVI-focused workshop on Surviving and Operating Through the Lunar Night, to be held on November 13, also at USRA in Columbia, Maryland.

To be added to the mailing list to receive reminders and other pertinent information related to the meeting, please submit an Indication of Interest, and see more at https://www.hou.usra.edu/meetings/leag2018/.
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:

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| The G. K. Gilbert Fund        | $(_____)
| PGD Student Travel Grants     | $(_____)

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.html
2017-2018 Division Officers

(Chair) Thomson, Bradley J.  
Research Interests: I am interested in understanding the nature and timing of the physical processes that have shaped the surfaces of planetary bodies, including impact, aeolian, fluvial, lacustrine, and volcanic processes. Affiliation: Dept. of Earth and Planetary Sciences, University of Tennessee, Knoxville, TN 37996; bthom@utk.edu

(Past-Chair) Wray, James J.  
Research Interests: I am interested in studying the 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

(1st Vice-Chair) Wilson Purdy, Sharon A.  
Research Interests: I investigate Mars geology, geo-morphology, 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

(Senior Student Advisory Member) Favaro, Elena.  
Research Interests: I enjoy investigating planetary geomorphology, aeolian processes and mechanics, analogue field investigations, and field work. Affiliation: University of Calgary, Department of Geography, Calgary, AB T2N 1N4; elena.favaro@ucalgary.ca

(2nd Vice-Chair) Martin, Emily S.  
Research Interests: I am interested in studying icy satellites, tectonics, faults and fractures, and geologic mapping. Affiliation: Center for Earth and Planetary Studies, Smithsonian Institution, National Air and Space Museum, Washington, DC 20013; martines@si.edu

(Junior Student Advisory Member) Crane, Kelsey.  
Research Interests: I investigate planetary structural geology, terrestrial tectonic histories, and structural field work. Affiliation: Structural Geology/Geomechanics Group, Department of Geology, University of Georgia, Athens, GA 30602; kelsey.crane@uga.edu

(Secretary) Needham, Debra H.  
Research Interests: I study planetary volcanology and lava flow emplacement dynamics, and I work with engineers to integrate science in robotic and human exploration. Affiliation: NASA Marshall Space Flight Center, Huntsville, AL, 35805; debra.m.hurwitz@nasa.gov