Message from the Chair

Simon A. Kattenhorn
Dept. of Geological Sciences
University of Idaho

Greetings! As the 2011-2012 Chair of the Planetary Geology Division, I would like to start off by thanking the PGD membership for your continued support of the division. We celebrated the 30th anniversary of the PGD during 2011 with a record 620 members, and thoroughly enjoyed our interactions with you at the annual meeting in Minneapolis last October. Our sessions in Minneapolis were often full to the brim, reflecting a diverse array of planetary science topics. We particularly thank our

invited speakers at the 30th anniversary special session, “Then and Now: The Past 30 Years of Solar System Exploration,” who amazed us with a fascinating retrospective on the exploration of the solid planets, our moon, the outer solar system icy moons, and the asteroids.

At a time when future federal funding for planetary science and solar system exploration is in jeopardy of being reduced to levels that will be crippling to our community (a proposed 21% cut in the 2013 federal budget – more than any other science program), we should constantly remind ourselves about how far we have come in the planetary sciences in so short a time. In the past half-century, our young field of science has made great scientific advances, engaging humankind with visions of a stunningly diverse solar system. Every spacecraft image broadcast back to Earth seems to raise a multitude of new questions; there is still so much to do! We need to be vigilant in demanding that Congress invest
in the future of our science. I felt honored to participate as a panel member in a community forum to address this threat to planetary sciences at the recent LPSC conference in The Woodlands, TX. The concern by those who attended the forum was palpable. For information on how to contact your representatives to express your concerns about funding issues, I refer you to a site hosted by The Planetary Society at http://www.capwiz.com/tps/issues/alert/?alertid=61055906&type=CO. I would also like to remind the membership of the official Geological Society of America position statement in support of planetary exploration, which you can download here: http://www.geosociety.org/gsatoday/archive/21/9/pdf/i1052-5173-21-9-54.pdf

Despite potential funding setbacks, we have reason to be proud of our successes over the past year, with MESSENGER’s insertion into Mercury orbit, Dawn’s exploration of the fascinating surface of Vesta, the launch of GRAIL, Juno, and Mars Science Laboratory, as well as the continued successes of ongoing missions such as Cassini, Lunar Reconnaissance Orbiter, New Horizons, and the indefatigable Mars Exploration Rovers. This is truly an exciting time for planetary exploration.

Of course, we should also acknowledge some of the successes back here on Earth, namely the recent award winners in the division! We are honored to announce the 2012 winner of the G.K. Gilbert Award: Dr. Pete Schultz of Brown University. Pete will be honored with a special session and awards ceremony at the annual meeting in Charlotte in November. We also congratulate the 2012 recipient of the Pellas-Ryder Award, D. Alex Patthoff (University of Idaho) for the best student-authored publication in planetary sciences in the past year, and the 2011 winner of the Eugene M. Shoemaker Impact Cratering Award, Olivia Thomson (University of Puerto Rico, Mayaguez). At the annual meeting in 2011, we also presented the Distinguished Service Award for the first time, acknowledging the contributions of Eric Twelker (The Meteorite Market) and Timothy McCoy (Smithsonian Institution). Beginning this year, this award has been renamed the Ronald Greeley Award For Distinguished Service, in honor of our late colleague and a former Chair of the Planetary Geology Division (among a lifetime of incredible accomplishments in our discipline).

This year also marked the first time that we were permitted to open the Stephen E. Dwornik Student Awards to any student enrolled at a U.S. university, including international students. This development is something that the PGD officers have been trying to accomplish for many years, and we are delighted to have the support of Steve Dwornik in this endeavor. The Dwornik Awards are presented to both graduate and undergraduate students to acknowledge the highest quality oral and poster presentations at the LPSC meeting each year. This year, there was a record 149 applicants for the award (a stunning increase of 67% over 2011 numbers). Such a large increase necessitated the development of an online system for enrolling volunteer judges and submitting judging forms at the conclusion of the meeting. Not only did this streamline the daunting task of making sure that each applicant was fairly judged, but also made it easier to match judges with the most appropriate presentations given the range of presentation topics and the individual conference schedules of 120 judges. I would like to personally thank PGD Second Vice-Chair, Devon Burr, for her tremendous efforts in making sure the entire process ran smoothly despite an untested online system, and our webmaster, Jen Hinds, for putting
Looking ahead to the annual meeting in Charlotte, North Carolina (4-7 November, 2012), we are excited about our 12 proposed topical sessions at the meeting (see http://www.geosociety.org/meetings/2012/techProg.htm) and encourage you to consider submitting an abstract by the August 14 deadline. There are sessions on Mars, the Moon, Vesta, impact cratering, tectonics of icy moons, terrestrial analog studies, and K-12 planetary science education. We will also have a special session in honor of the late Ron Greeley (The Heart of an Explorer: A Tribute to Ronald Greeley), and encourage past students and colleagues of Ron to consider submitting an abstract. We are also excited to be hosting one of the Pardee Keynote Symposia at the annual meeting (Mars Rover Curiosity: Geoscience in Gale Crater) in which the first science results from the Mars Science Laboratory mission will be presented (the abstract deadline is only a few days after MSL arrival at Mars!). Finally, we will continue a new tradition started at the 2011 meeting by having a PGD banquet at the annual meeting in Charlotte, where we will honor this year’s G.K. Gilbert Award recipient, Pete Schultz, among other celebratory events. Look out for more information in the Fall PGD Newsletter before the 2012 annual meeting.

I’d like to conclude by reminding you to renew your PGD membership (in case it slipped your mind this year), and to urge you to consider donating to one of our various programs that financially support students in our research community (e.g., travel grants). Please see the GSA Foundation donation website for a list of PGD programs that you can support (http://www.gsafweb.org/makeadonation.html). As always, you can find information about the division (including details on applying/nominating for one of our awards) on the PGD website (http://rock.geosociety.org/pgd). The other division officers and I are always happy to hear from you, so contact us for any reason. I’ll finish off by thanking my fellow officers for their continued dedication and hard work in support of the PGD. You are amazing colleagues and an asset to our community. Thank you!

Simon Kattenhorn
PGD Chair
University of Idaho
April 2012

2012 Division News

Ronald Greeley 1939-2011

It is with great sadness that we report the news of the death of an illustrious member of the Planetary Geology Division. Ronald Greeley passed away on October 27, 2011 at the age of 72. He is survived by his wife of 51 years, Cynthia (Cindy) Moody Greeley, a son, three grandchildren and two brothers. He was preceded in death by a daughter.

Ron received his undergraduate and graduate degrees in geology from Mississippi State University, and his doctorate from the University of Missouri at
Rolla. He was an Alumni Fellow of Mississippi State University, an Overseas Fellow, Churchill College, Cambridge University, England and a Research Fellow of the University of London Observatory, London, England.

Ron was a planetary geologist and Regents' Professor at ASU. Ron began teaching at ASU in 1977 with a joint professorship in the Department of Geology and the Center for Meteorite Studies. He served as Department Chair and later as Interim Director during the establishment of the School of Earth and Space Exploration at ASU.

Ron was a pioneer in the field of planetary geology. He had been involved in lunar and planetary missions since 1967 when he worked at NASA's Ames Research Center in preparation for the Apollo missions to the Moon. His research in planetary geology has contributed significantly to our understanding of planetary bodies within our solar system. He served as the director of the NASA-ASU Regional Planetary Image Facility and principal investigator of the Planetary Aeolian Laboratory at NASA-Ames Research Center. He served on and chaired many NASA and National Academy of Science panels and he was involved in nearly every major space probe mission flown in the solar system since the Apollo Moon landings.

**2011 Annual Meeting**

The 2011 Annual GSA meeting in Minneapolis, Minnesota was the 30th anniversary of the Planetary Geology Division. Eight oral sessions and one poster session were sponsored by the division and multiple special events were held to commemorate this anniversary.

A special session titled “**Planetary Geology Division 30th Anniversary: Then and Now – The Past 30 Years of Solar System Exploration**” was organized and run by Simon Kattenhorn. The Division also sponsored a field trip titled “**The Sudbury Meteorite Impact Layer in the Western Lake Superior Region**”, led by Mark Jirsa, Phil Fralick, Paul Weiblen, Jennifer Anderson. The session titled “**Robotic Exploration of Planetary Surfaces**” was organized by David Williams to honor the 2011 G. K. Gilbert Award winner, Steve Squyres.

A special GSA Planetary Geology Division 30th Anniversary Celebration and Awards Reception was held in Minneapolis as a ticketed event. The annual Business Meeting was held during the event. All PGD reports were presented, the various 2010 award winners were announced and the new division logo was introduced. In honor of the anniversary, all past PGD chairs who attended were acknowledged.
The PGD also treated 50 student members of GSA to lunch at a local restaurant. Then chair Dave Williams gave a talk while they ate to introduce the wonders of planetary geology.

The Planetary Geology Division booth continued to serve as a focal point for Division fundraising and outreach activities. We had a double booth this year and several special items - such as mugs, water bottles and polo shirts, all with the new PGD logo - to commemorate our 30th anniversary. Special thanks to all the members who donated time and items for the booth. Special thanks go out to Eric Twelker for his donation of meteorites for the daily raffles and continued support of the PGD.

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

We are pleased to announce the 2011 recipient of the Shoemaker Award was Olivia Thomson, University of Puerto Rico Mayaguez, who is conducting a study of zircons in Holocene sediments glacially derived from the Sudbury impact structure to show the feasibility of finding impact evidence in sedimentary deposits.

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 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 $2500, 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. For full consideration, applications and letters of recommendation should be received by 14 September 2012. The awardee is usually announced at the Planetary Geology Division business meeting during the annual GSA conference. Please check the following website (http://rock.geosociety.org/pgd/awards.html#shoemaker) for submission information and electronic application form. The Planetary Geology Division officers strongly encourage all of our Division members to actively recruit promising students to apply for this prestigious award.

**2011 Dwornik Awards**

The judging panel at the 42nd LPSC saw another crop of outstanding entries for the 2011 Dwornik Prize — many thanks to the
all the students who competed and to the volunteers who assisted with the judging! The 2011 Dwornik winners are:

**Best Graduate Poster:** Christina E. Viviano, “Using THEMIS to Address Discrepancies between OMEGA/CRISM and TES Detections of Phyllosilicates”, University of Tennessee, Knoxville

**Best Graduate Oral:** Kelsey J. Zabrusky, “The distribution and depositional history of sedimentary deposits in Arabia Terra”, Colorado School of Mines

**Honorable Mention:** Debra M Hurwitz, “Modeling effects of lunar surface slope, temperature, and material properties on the efficiency of erosion during the formation of Rima Prinz”, Brown University

**Best Undergraduate Poster:** Sarah Christian, “Frequency Analysis of SHARAD reflectors within the North Polar Layered Deposits, Mars and Implications for the link between Radar and Optical Data”, Bryn Mawr College

**Honorable Mention:** Niina Jamsja, “Presence of hydrous phases in two R chondrites, Northwest Africa 6491 AND 6492”, Portland State University

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. Beginning in 2012, the award was open to any student currently enrolled at a U.S. institution. The award consists of a plaque and a $500 check (graduate) / $250 check (undergraduate), and is given for the best 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.

**Special Thanks to Dwornik Judges**

PGD officers would like to thank all of our members who attended the 43rd LPSC and assisted in judging for the 2012 Dwornik awards. With the large number of applicants each year, it would not be possible to judge the student awards without the help of our volunteers.

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**2012 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.

For 2012, the Pellas-Ryder award was presented to: D. Alex Pathoff, University of Idaho (Advisor: Simon Kattenhorn) for an outstanding publication in a major peer-reviewed journal on a topic of significant importance, and for the perseverance to see it published.


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**Call for Applications & Nominations**

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

**G.K. Gilbert Award**: All members are strongly encouraged to submit nominations for the G. K. Gilbert Award. This is the Division’s highest award, presented annually for outstanding contributions to the solution of fundamental problems in planetary geology in the broadest sense. Nominations (which include a letter detailing the accomplishments of the nominee) should be submitted directly to Simon Kattenhorn (simkat@uidaho.edu) by December 1, 2012.

**Dwornik Award**: This award is now open to all students enrolled at a U.S. university. 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.gsaful.org/makeadonation.html
In addition, anyone interested in serving as a judge for the Dwornik competition at next 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!

**Eugene M. Shoemaker Award**: The Shoemaker fund is currently self-sustaining, but we welcome your donations. As a reminder, the deadline for 2012 will be on September 14, 2012. For more details and online application forms, please see: http://rock.geosociety.org/pgd/awards.html#shoemaker

**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 was January 31, 2012. For details, or to nominate papers published for next year, contact Division Past Chair Dave Williams (david.williams@asu.edu).

**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 future Pardee Keynote proposals to coordinate with Simon Kattenhorn (simkat@uidaho.edu) or Bob Anderson (Robert.C.Anderson@jpl.nasa.gov). As you consider possible topics, remember that the Pardee Keynote Symposia represent interdisciplinary, leading-edge topics in a scientific discipline or area of public policy or address broad fundamental issues.

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

**2011 Finances and Membership**

The Division's finances remain healthy, and we hope they will continue to improve, as we stay focused on reducing costs and raising funds. In 2008 we instituted a new student travel grant program for students to attend the annual GSA Meeting, in which two students receive a $500 grant (with matching funds from the student’s advisor). The 2011 travel grant awardee was Robert Jacobsen of the University of Tennessee.

To continue these travel grants (and our fiscal health) we need your support through
purchases at our booth at the Annual Meeting! So come to the booth at the 2012 Charlotte meeting and stock up on gifts for just a small donation!

Our largest single yearly cost is usually the Division’s annual business meeting, but this year costs were defrayed by offering a ticketed dinner instead of a free lunch. However, other expenses were accrued in our celebration of our 30th anniversary. These expenses – such as the free student lunch and the specialty items at the booth – were only part of our anniversary celebration and will not affect our finances moving forward. The financial activity of our Division over the past year is summarized as follows:

REVENUE 2011 $
Division Dues Income 1,771.73
Contributions 2049.17
Total Revenue 3820.90

EXPENSES 2011 $
Catering & Entertainment 2386.05
AV Services 1024.80
Building/Facilities Rental 150
Cost of Goods Sold 2796.67
Decorator Services 246.91
Postage, Shipping, Freight 222.02
Stationary/Office Supplies 4.19
Awards, Purchased 108.00
Misc. Expense 963.00
Total Expenses 7901.64

NET INCOME/LOSS -4080.74

LIABILITIES
Deferred Dues Income 3024.99
Net Assets, Beginning of Year 14,592.34
Net Income/Loss Current Year -4080.74

UNRESTRICTED NET ASSETS 2011 $13,536.59

Membership: As of the end of 2011, the Division has 620 members. Please encourage your colleagues to keep their Division memberships active, and remember that GSA accepts new membership applications online at the GSA website: http://www.geosociety.org

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 your future colleagues. Please include a check or money order, made payable to Planetary Geology Division, GSA.

YES I have enclosed a check as a donation to:

The Dwornik Fund amount $(_______)
The Shoemaker Fund amount $(_______)
The G. K. Gilbert Fund amount $(_______)
Student Travel Grants amount $(_______)

WHEN MAKING A DONATION, PLEASE PUT THE BALLOT AND CHECK IN AN ENVELOPE AND MAIL IT TO:
The Geological Society of America, P.O. Box 9140, Boulder, CO 80301-9140.
ANNOUNCING THE 2012 G.K. GILBERT AWARD WINNER

Dr. Peter Schultz, Brown University

The 2012 G.K. Gilbert awardee is Dr. Peter Schultz, Professor, Brown University.

Impact cratering is one of the few processes affecting all planetary bodies. Records can provide clues for contrasting geologic evolutions. The planetary record, lab experiments, field studies, and theoretical approaches allow exploring a process at scales we hope we never witness. Dr. Schultz’s main research has been on the effect of impact angle on cratering and the role of the atmosphere in modifying the process. Different planetary environments, laboratory simulations, and theoretical models allow testing under extreme conditions and to extreme scales.

Peter H. Schultz received his Ph.D. in Astronomy at the University of Texas at Austin in 1972. After working as a research associate at the NASA Ames Research Center, and a Staff Scientist at The Lunar and Planetary Institute, he became an Associate Professor in the Department of Geological Sciences at Brown University in 1984. He was promoted to full Professor in 1994. In addition to his research and teaching responsibilities at Brown, Pete has served as Director of the Lunar and Planetary Institute Planetary Image Facility, and is currently the Director for both the Northeast Planetary Data Center and the NASA/Rhode Island University Space Grant Consortium.

Upcoming 2012 Annual Meeting

The 2012 GSA annual meeting will be held November 4-7, 2012, in Charlotte, North Carolina (http://www.geosociety.org/meetings/2012/). The theme of the meeting is Geosciences: Investing in the Future. We hope to have a very visible presence at the meeting. The final list of sessions approved by GSA will be reported in the Fall 2012 PGD Newsletter, which will be published prior to the Annual Meeting. Note that we especially encourage students to submit abstracts to any of these sessions!

List of Proposed Sessions, 2012 GSA Annual Meeting, Charlotte

Pardee Session:
Mars Rover Curiosity: Geoscience in Gale Crater, GSA Planetary Geology Division, Robert C. Anderson - The Mars Science Laboratory mission is part of NASA’s Mars Exploration Program, a long-term effort of robotic exploration of the red planet. Launched on Nov. 26, 2011, the Mars Science Laboratory rover, Curiosity, will be used to assess whether Mars ever was, or is still today, an environment able to support microbial life. In other words, its mission is to determine the planet's "habitability." To answer this question, the rover carries the most advanced suite of instruments ever sent to the martian surface. The rover is designed to analyze multiple samples of rocks and soils and the local geologic setting in order to detect chemical building blocks of life (e.g., forms of carbon) and will assess what the Martian environment was like in the past. Assuming a successful landing of the Mars Science Laboratory on August 6, 2012, the timing of the annual meeting of the Geological Society of America in Charlotte corresponds to the first 90 days on the surface of Mars. This meeting will provide the first look by the science community at the science data and preliminary results from the field site in Gale Crater. (Planetary Geology)

Topical Sessions:
T147. Tectonics of Icy Bodies and Their Analogs, GSA Planetary Geology Division; GSA Structural Geology and Tectonics Division, D. Alex Patthoff, Emily S. Martin, Simon A. Kattenhorn - We seek abstracts relating to the structure and tectonics of the surfaces and interiors of icy satellites, KBOs, and planetary analogs; this includes experimental, observational, and numerical modeling approaches. (Planetary Geology; Tectonics; Structural Geology)

T148. Geochemistry, Mineralogy, and Petrology of Mars, GSA Planetary Geology Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA International Section, A. Deanne Rogers, James J. Wray, Suniti Karunatillake -This session will focus on advances made in understanding the formation, evolution, and alteration of the martian crust through geochemical and mineralogical analyses. Presentations that utilize spacecraft data analysis, experiments, models, and/or analog studies are welcome. (Planetary Geology; Geochemistry; Petrology, Igneous)

T149. Shock Processes and Shock Attenuation Associated with Hypervelocity Impact Events, GSA Planetary Geology Division, John G. Spray - Shock due to hypervelocity impact is an important aspect of planet building and planet modification. This session seeks to link shock
damage effects to the radial distribution of shock via experimental and field-based observations. (Planetary Geology; Mineralogy/Crystallography; Petrology, Metamorphic)

**T150. The Geology of Asteroid 4 Vesta as Seen by Dawn: Results from One Year in Orbit, GSA Planetary Geology Division; GSA Structural Geology and Tectonics Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division, R. Aileen Yingst, Scott C. Mest, W. Brent Garry - This session will present the exciting results from analysis of the data from Dawns year at Vesta, including results from geologic mapping at global and local scales. (Planetary Geology; Structural Geology; Geochemistry)

**T151. Linking Earth-Observing Data and Planetary Mission Data in the Teaching and Presentation of Basic Geoscience to K 12 Students, Teachers, and the General Public, GSA Planetary Geology Division; GSA Geoscience Education Division, Jayne C. Aubele, Eric J. Pyle, Jeannie Allen - We encourage abstracts on programs that combine NASAs Earth Observing Data with Planetary Mission Data to teach geoscience at all levels and to present geoscience topics in museums and other informal science education venues. (Planetary Geology; Geoscience Education; Remote Sensing/Geographic Info System)

**T152. New Moon Rising: The Latest Geologic Results from the Lunar Surface, GSA Planetary Geology Division, R. Aileen Yingst, Noah Petro, Scott C. Mest - Earth's Moon continues to be a prime target for remote exploration and analysis. This session will highlight the latest developments in lunar surface geology, geomorphology, and mineralogy as revealed by recent missions. (Planetary Geology; Geomorphology; Geophysics/Tectonophysics/Seismology)

**T153. The Moon, Inside and Out: New Results in Lunar Geophysics, Structure, and Interior, GSA Planetary Geology Division; GSA Geophysics Division; GSA International Section, Gwendolyn D. Bart, James W. Head, Maria T. Zuber - This session focuses on our expanding understanding of lunar geophysics, as well as the Moon's present interior structure and evolution, by presenting new results from recent spacecraft missions. (Planetary Geology; Geomorphology; Geophysics/Tectonophysics/Seismology)

**T154. Observation and Analysis of Impact Cratering and Its Effects: The G.K. Gilbert Award Session, GSA Planetary Geology Division, Simon A. Kattenhorn, David Crawford - This session celebrates the career and accomplishments of the 2012 recipient of the Planetary Geology Divisions G.K. Gilbert Award. Talks will be presented by the awardee and by the awardees colleagues and former students. (Planetary Geology)

**T155. The Heart of an Explorer: A Tribute to Ronald Greeley, GSA Planetary Geology Division, David A. Williams - Ronald Greeley, a leader in planetary geology, passed away in October 2011. In tribute to Rons memory, we are seeking presentations to discuss recent results from the field or technique or missions, in which Ron participated. (Planetary Geology; Volcanology; Sediments, Clastic)

**T156. Geologic Analog Studies of the Rocky Planets: Understanding Planetary Geologic Evolution and Surface Processes, GSA Planetary Geology Division, Larry S. Crumpler, Jayne C. Aubele - We seek abstracts that analyze past, present, and potential analog studies of the
rocky planets of our solar system and their usefulness in understanding planetary geologic evolution and in future mission planning. (Planetary Geology)

**T157. Gridview Image Manipulation for LOLA and MOLA Topographical Data (Posters), GSA Planetary Geology Division, Rosemary A. Millham** - GRIDVIEW software, an image manipulation tool, is decidedly an innovative tool for use in the study of planetary geomorphology using IDL created data images for Earth's Moon and Mars. (Planetary Geology; Geomorphology; Geoscience Education)

**T158. Impact Cratering in the Solar System: Processes and Products, GSA Planetary Geology Division; GSA Sedimentary Geology Division; GSA Geophysics Division; GSA Structural Geology and Tectonics Division, Christian Koeberl, Jeffrey Plescia** - This session focuses on the nature of solar system impacts. Contributions regarding impact morphology, shock processes and materials, modeling, and impactor evolution are solicited. Comparisons of cratering among planets, small bodies, and satellites are encouraged. (Planetary Geology; Structural Geology; Geochemistry)

**GSA 2011-2012 Planetary Geology Division Officers**

Chair: *Simon Kattenhorn*, Department of Geological Sciences, University of Idaho, Moscow, ID 83844; **simkat@uidaho.edu**

First Vice-Chair: *Robert C. Anderson*, NASA Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109; **robert.c.anderson@jpl.nasa.gov**

Second Vice-Chair: *Devon Burr*, Department of Earth and Planetary Sciences, University of Tennessee, Knoxville, TN 37996; **dburr1@utk.edu**

Secretary-Treasurer: *Debra L. Buczkowski*, Johns Hopkins University Applied Physics Laboratory, Laurel, MD 20723; **debra.buczkowski@jhuapl.edu**

Past Chair: *David A. Williams*, School of Earth & Space Exploration, Arizona State University, Tempe, AZ 85287; **david.williams@asu.edu**

Need more information about your division? Check out our website at: **http://rock.geosociety.org/pgd/index.htm**
(Chair) Katteenhorn, Simon A., Planetary Geology, Structural Geology, Geomechanics. Education: Univ. of Natal, Durban, South Africa, B.Sc. (Geology, Physics) 1990, B.Sc. Hons. (Geology) 1991, M.Sc. (Geology) 1994; Univ. of Akron, Ohio, M.S. (Geology) 1994; Stanford University, California, Ph.D. (Geological & Environmental Sciences) 1998. Professional Experience: Geological Sciences Professor (2011-present), Associate Professor (2004-2011), and Assistant Professor (1998-2004), Univ. of Idaho. Professional Service: Planetary Geology Division Officer, GSA, 2009-present; NASA-Idaho Space Grant Consortium Advisory Committee, 2009-2010; Session chair, GSA Annual Meeting 2009, 2011; AGU Fall Meeting 2002; Scientific Organizing Committee, Lunar and Planetary Institute Workshop on Europa’s Icy Shell, 2004; Reviewer for 87 journal/book articles and grant proposals 1997-present; Served on NASA Planetary Geology and Geophysics and NASA Outer Planets Research review panels. Professional Memberships: GSA (1993-present), AGU (1996-present), AAS-Division for Planetary Sciences (2003-present); Planetary Society (1995-present). Honors & Awards: Donald Crawford Graduate Faculty Mentoring Award, Univ. Idaho, 2012; Alumni Award for Excellence, Univ. of Idaho 2011; Participant in NSF-funded Tropical Rift Lake Systems Workshop, Lake Kivu, Rwanda, 2010; Participant in NSF-funded Workshop on Volcanic and Seismic Hazards in East Africa, Trieste, Italy, 2009; Participant in NSF-funded Magmatic Intrusion Workshop, Dry Valleys, Antarctica 2005; Participant in NSF-funded Tectonic-Magmatic Interaction Workshop, Iceland 2003; Alumni Award for Excellence, Univ. of Idaho 2001. Research: Tidal stresses and tectonic deformation on outer solar system icy satellites; active tectonics on Europa and Enceladus; normal fault evolution and dike intrusion on Earth and Mars; tectonics of oblique spreading, Iceland; active tectonics and earthquake hazards in northern California. Research advisor to 21 graduate students; Published 24 research articles and 102 conference presentations; External research funding from NASA (16 times), NSF (2 times), DOE, Schlumberger. Address: Dept. of Geological Sciences, Univ. of Idaho, PO Box 443022, Moscow, ID 83844-3022; Ph (208) 885-5063; Email: simkat@uidaho.edu.


(Second Vice-Chair)


(Secretary-Treasurer)


(Past-Chair) Williams, David A., Mathematical computer modeling, geologic mapping, image processing, geochemical studies, Volcanology, Planetary Geology. Education: Indiana University BS (Astronomy & Astrophysics) 1989; Arizona State University,