

Quaternary Geologist & Geomorphologist

Newsletter of the Quaternary Geology and Geomorphology Division

<http://rock.geosociety.org/qgg>

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Above: Who says Geomorphology can't be a front-porch activity? Here the 2012 Kirk Bryan Fieldtrip participants are introduced to the intricacies of southern style on Missy Eppes' front porch in Charlotte during the November 2012 GSA Annual Meeting. They're all still sitting-standing upright, so this photo must have been taken before Missy served the Mint Juleps. Say 'pizza & beer', ya'll.

Quaternary Geology & Geomorphology Division Officers and Panel Members – 2012/2013

Officers – 6 Members, three of whom serve one-year terms: Chair, First Vice-Chair, and Second Vice-Chair; and three of whom serve two-year terms: Secretary, Treasurer, and Newsletter Editor/Webmaster.

Management Board – 8 Members: Division officers and the Chair of the preceding year; also includes the Historian as an *ex officio* member.

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QG&G Division Liaison – Wesley Hill

(Both appointed by the GSA President)

— Message from the Chair —

Jim O'Connor

Here in Portland summer is full swing, nearly a month earlier than its traditional July 5 start. This winter and spring has been busy for the QG&G board. GSA is making new efforts to increase its presence and relevance; many of which involve the Divisions, which to me are the heart and soul of the Society. Also, many strong candidates for the 2013 QG&G professional and student awards have made the selection processes challenging and time-consuming but immensely gratifying.

Preparation for the annual meeting is now ramping up, which brings me to my main message: The Denver 2013 meeting, celebrating GSA's 125th anniversary, will be large and QG&G will have a strong presence. Please consider being a part of it. We are sponsoring or co-sponsoring 35 topical sessions, 4 special sessions, and 4 Pardee Sessions. Several short course and field trips should also entice QG&G members, including the annual Kirk Bryan trip on Wed., Oct. 30, to the Boulder Creek watershed. One highlight of the meeting should be the Tuesday morning Pardee Keynote Symposium, when leading QG&G scientists will summarize the notable achievements of the last several decades. This will be followed by an afternoon session of contributed posters (T159) where all can offer insights to our field's past, present and future. Tuesday in particular will be a day of concerted Quaternary Geology and Geomorphology activities, culminating in the annual awards banquet from 7:00 to 11:00 PM. But all days will be full owing to the multitude of strong session proposals and the diverse and interdisciplinary nature of our field. Registration and abstract submittal are now open, and the abstract deadline will be here before you know it on August 6. I hope to see you in Denver. And, finally, as always, if you have any matters to bring to your board, feel free to contact me or any of the board members via the contact information next to our dorky pictures.

— QG&G Logo Contest —

If you hadn't already noticed, QG&G has a new logo! The new logo was approved by a vote of the members before and during the GSA Annual Meeting in Charlotte. The winning entry was submitted by Pete Birkeland and Shemin Ge. Their prize was/is the gratitude and appreciation of the QG&G membership.

QG&G DIVISION AWARDS - 2012
The following awards were given by the QG&G Division at our annual awards ceremony on Tuesday, November 6th, at the Charlotte Convention Center.

— Kirk Bryan Award —

The Kirk Bryan Award for Research Excellence was established in 1951. The award is given for a publication of distinction (within the past 5 years) advancing the science of geomorphology or Quaternary geology, or a related field. Our 2012 award was presented to **Neal R. Iverson, T.S. Hooyer, J.F. Thomason, M. Graesch, and J.R. Shumway** (Iowa State University) for their paper "The experimental basis for interpreting particle and magnetic fabrics of sheared till," *Earth Surface Processes and Landforms*, v. 33, p. 627-645 (2008).

Citation by Scott Lundstrom:

The Kirk Bryan Award allows us to honor the authors of a recent publication that advances the science of geomorphology and Quaternary Geology. The 2012 award goes to Neal Iverson, Thomas Hooyer, Jason Thomason, Matt Graesch, and Jacqueline Shumway, for their paper, "The experimental basis for interpreting particle and magnetic fabrics of sheared till"—published in *Earth Surface Processes and Landforms* and invited for a special issue on "Reconstructing ice-sheet dynamics from subglacial sediments and landforms."

This paper is laudable in several ways, but I will restrict my citation to two aspects: its importance to subglacial geomorphic processes in our evolving understanding of glaciation, and its illustration of the utility of experimental approaches to geomorphology.

Subglacial deformation of till can activate rapid flow of glaciers and ice sheets and contribute to the formation of diverse landforms that develop at glacier beds. Yet, for obvious reasons, direct observations of the complex processes that occur beneath glaciers are very limited, and much of our knowledge is open to question. Thus, the development of new approaches to test models of

bed deformation and related subglacial processes is a critical need.

The lead author, Neal Iverson, has been at the forefront of efforts to fill that need with measurements beneath modern glaciers, studies of the sediments and landforms of past ice sheets, and laboratory experiments. A central part of this work has been the construction and application of large, custom ring-shear devices in which various materials, including till, are sheared. In the paper being honored, the authors demonstrated the relationship between shear deformation and the development of till fabric based on preferred particle orientations. Traditional measurements of pebble and sand-grain fabrics, and of silt fabrics based on anisotropy of magnetic susceptibility were, for the first time, calibrated to many known states of strain. These results, particularly those based on magnetic anisotropy, provided a quantitative and reproducible framework for inferring patterns and magnitudes of till deformation from the geologic record.

Some longstanding models for interpreting field observations, such as models of particle rotation based on viscous fluid flow, were proven incorrect as applied to till and a robust foundation was created for determining how ice sheets move on till beds and affect sediment fabric.

Why study this problem experimentally? I cannot do better answering this question than to read from the final paragraph of the paper being honored:

“Actual subglacial environments are, of course, more complicated than those of our experiments, but that is precisely why experiments are valuable: at the roots of complex geologic phenomena are simple truths that can be obscured in the geologic record but must be understood before claiming basic understanding of that record. These simple truths can be illuminated through experimentation. Unless field workers seeking to interpret fabrics of basal tills reject this well-established philosophy of reductionist science, they need to either let experimentally-derived conclusions help guide their interpretations or demonstrate why such conclusions are wrong.”

Whether the glacial geology community has embraced this challenge is still unclear. However, there is little doubt that the extensive body of experimental work presented in this paper is innovative, rigorous, informative, and very significant to understanding the dynamics and

subglacial processes of past glaciers and ice sheets. The paper and its authors are richly deserving of the Kirk Bryan Award.



Kirk Bryan Award recipients Hooyer, Iverson, and Thomason with QG&G Chair Rathburn (at left).

Response by Neil Iverson:

Thanks Scott, for your generous words. To avoid repetition of responses like the one I am about to give, I am going to speak for my co-authors today. Let me take a moment to acknowledge them. When they first considered graduate school, they probably envisioned themselves working on an Alpine moraine, in the high Arctic, or at least in a midwestern gravel pit. I am guessing their plans did not include spending long days in a small room hunched over a peculiar looking piece of experimental equipment, meticulously sampling wet till. Thank you, Tom, Jason, Matt and Jackie for adapting, persevering, and innovating—and for helping to educate me along the way.

When I first thought about building the device that we used in our study, I was a post-doc in the early 1990s at the University of Minnesota struggling to find an academic position. One of my interests was till rheology—a popular topic of the day among glaciologists who had realized that glaciers and parts of ice sheets can ride piggyback on shearing sediments. I was reluctant, however, to sink major effort into building a custom device with future pay-offs that seemed both uncertain and distant. When I raised those doubts with my supervisor, Roger Hooke, his response, delivered after a thoughtful pause, seemed less than sage: “I’d just build it and see what happens.” In retrospect, Roger was right on target. Not until the device was built and we had learned that slowly deforming till does not obey a

fluid rheology did all sorts of other untested hypotheses become evident to us. One of these was that till fabric could be used to quantitatively characterize the style and magnitude of glacier-bed deformation.

The subject of untested hypotheses brings me back to the point of that somewhat didactic paragraph that Scott just read from the end of our paper. In our field, as we all know, community-wide consensus can become mistaken for fact, and models can drift from one textbook to the next, unanchored to data. Compelling ideas and models seem plentiful; hypothesis tests that leave us with definitive knowledge seem rare. Experiments, of course, can provide a concrete reality check that complements field studies—but only if a chunk of the natural system is bitten off that is small enough to be chewed and swallowed. And there's the rub: the limited scopes, tightly drawn objectives, and baby steps forward that characterize most experimental work can seem out of step with a modern science culture that emphasizes "Earth systems," "grand challenges," and "transformative research." Tennyson's famous verse stating that "Science moves, but slowly, slowly, creeping on from point to point" is still true, but it would never fly in an NSF proposal. Against this backdrop, experimental reductionism can seem a bit old-fashioned.

For this reason my co-authors and I are especially indebted to Scott for his nomination, to those who wrote letters on our behalf, and to the awards committee. Thank you for finding value in playing with mud in the laboratory and honoring our small step forward.

— Distinguished Career Award —

The Distinguished Career Award, established in 1985, is presented to Quaternary geologists and geomorphologists who have demonstrated excellence in their contributions to science. For 2012, we presented the award to **Ken Pierce, U.S. Geological Survey** (Emeritus).

Citation by Steve Colman:

I am very pleased to be able to give the citation for this year's QG&G Distinguished Career Award. Ken Pierce was one of my first career mentors and he was a big influence on my professional life, so it is

especially gratifying to be here with him and members of his family tonight for this ceremony. I would also like to acknowledge that Ken's nomination for this award was supported by a sizable group of people, including Ken Cannon, Joe Licciardi, Bill Locke, Mike Machette, Lisa Morgan, Marith Reheis, and Cathy Whitlock, as well as a variety of other people in other informal ways.

I won't try to summarize Ken's distinguished career here, but Ken has contributed immensely to the broad field of Quaternary science. In the 1960s and 1970s, Ken was in the vanguard of a new generation of earth scientists, who combined traditional, basic geological methods such as field mapping, with more modern processed-based approaches to topics such as glaciology and soil formation. These new approaches, combined with Ken's calm but tenacious curiosity, was extremely attractive to a loose confederation of young Quaternary researchers in Colorado in the 1970s. At one point, a group of us were referring to him as "The Guru," much to his quiet dismay. Like any productive career, Ken's was occasionally marked by professional or administrative opposition. He faced even the worst of these situations with admirable courage and gentle persistence. As most of you know, Ken is a rather soft-spoken guy; luckily for everyone, Ken's science speaks much louder than he does.

Most of Ken's research has involved interdisciplinary work in the greater Yellowstone-Teton area, but he has also made fundamental topical contributions to the glacial history of the Rocky Mountains, to Quaternary dating methods, and to young tectonic and volcanic processes. Ken has produced landmark papers in glacial geology (especially his Yellowstone ice cap Professional Paper), in dating methods (including obsidian hydration, progressive weathering and landform change, and cosmogenic radionuclides), and mantle-plume evolution (including young faulting, uplift, and volcanism associated with the Yellowstone hotspot).

In addition to his published work, Ken has had unusually long and productive collaborations with people in an impressive range of disciplines, from archaeology to zoology. Many people speak of interdisciplinary research; Ken has made a career of it. He also has served as a quiet leader and as an informal mentor to many Quaternary scientists.

For all of these contributions to Quaternary geology, Ken is eminently deserving of this Distinguished Career Award.

With this award, Ken joins an elite group of 15 people who have won both the Kirk Bryan Award and the Distinguished Career Award from the Quaternary Geology and Geomorphology Division of GSA. In addition to the formal award, we (mostly Lisa Morgan) have taken the liberty of creating a plaque commemorating Ken's career. It is composed of a variety of rocks that we hope will evoke many fond memories. So, it is my distinct pleasure to help present Ken Pierce with the 2012 QG&G Distinguished Career Award.



DCA awardee Ken Pierce with Citationist Steve Colman and QG&G Chair Rathburn.

Response by Ken Pierce:

First, I am profoundly honored to receive this award. Thank you Steve for your wonderful tribute. Steve and I have shared many great experiences in the field.

Years ago, our families camped out together. Once, when our kids had picked a big bunch of black berries and wanted to cook up something up with them. Steve's wife Marian rose to the challenge and said we might attempt a kind of pie she called a "black berry grunt" which for the kids with a name like that had to be tried. This project was concocted in a frying pan on our "Coleman stove" (pun intended). We ate the resulting black mess with laughter and relish.

I am indebted and grateful to those who nominated me for this award: Marith Reheis, Lisa Morgan, Joe

Licciardi, Bill Locke, and Cathy Whitlock, all put together by Steve Colman.

I also thank my wife Linda, and all that she has shared and especially endured to make my career a success. Our children Andrew, Daniel, and Jennifer accompanied us in the field and assisted in many ways— all three have become research scientists. Our youngest, Jennifer, chose to become a geologist. I am delighted she, her youngest daughter Annie, and my wife (and grandmother) Linda are with us tonight. If Annie becomes a geologist, she will represent the fourth generation Pierce geologists.

In retrospect, I acknowledge the stimulus provided by Gerry Richmond. He challenged my interpretation of the glacial geology of Yellowstone. I had to defend my field research by learning how the physics of glaciers (glaciology) could support my glacial-geologic interpretations.

One of the major changes in geology now involves the information age and the manipulation of large digital data sets. Although this has great benefits, I encourage also the synthesis by old-fashioned thinking and boots on the ground field investigation. Also, there is nothing like observation and discussion in the field to appreciate the earth and our knowledge of geologic relationships and history both for fellow geologists and the interested public.

Finally, I especially thank the U.S. Geological Survey for supporting the varied pathways my research has taken. It has been a fun ride.

— The Farouk El-Baz — Award for Desert Research

The Farouk El-Baz Research Award, established in 1999, is given annually for outstanding work in the field of warm desert research. The award is intended to encourage and reward arid-land studies. The 2012 award was presented to **Julio Betancourt**, U.S. Geological Survey.

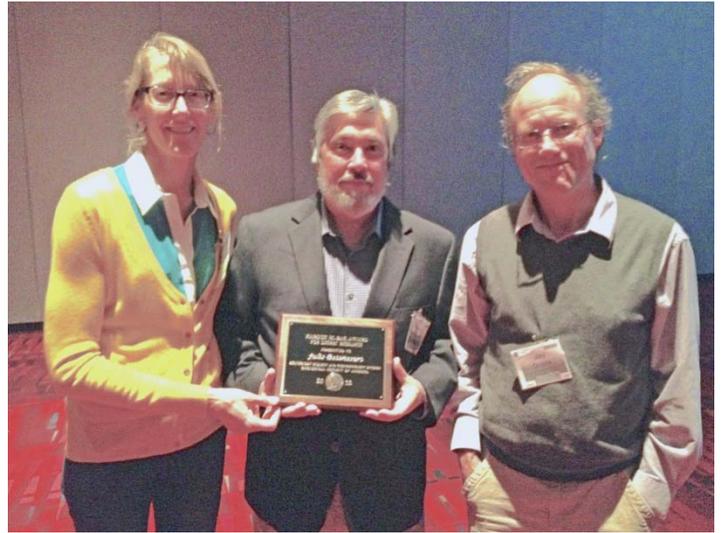
Citation by Jay Quade:

Julio Betancourt is this year's recipient of the Farouk El Baz Award for Desert Research. It is a good thing that Julio showed me his acceptance speech before I wrote out my citation, because he will need a lot more than the allotted five minutes to

present his acceptance! So I will be brief, but between the two of us I hope you get the picture as to why Julio was the easy choice for the El Baz Award this year. For one, Julio has worked most of his career in deserts, principally in our own deserts of the western USA, but also in Argentinian Patagonia, and in recent years the hyperarid Atacama Desert of Chile and Peru, where he and I overlapped for many years. More importantly, it is the focus, style, and passion of Julio's research in these deserts that truly stands out. Julio prides himself in the willingness and ability to "work the seams between disciplines", to use his own words. Julio started out as an archeologist, but he quickly realized that they argue too much. So in graduate school he pursued a blend of geology and ecology, which has been his professional niche in the USGS for the last twenty-three years. Julio is one of the few scientists I know who is completely at home presenting here at GSA (this morning he presented a talk on arroyo cutting); or as a plenary speaker to an entirely ecological audience on topics ranging from fire ecology to buffelgrass invasions, or to how plants migrate. With this award the Geological Society of America now joins others in their recognition of Julio's impressive achievements in the study of *both* the ecology and geology of deserts: the Ecological Society of America in 2001, the American Geophysical Union where Julio was elected a Fellow in 2009, and the American Water Resources Association (2005).

One piece of advice before I turn it over to Julio: if you are a graduate student out there, try to get Julio on your committee. Julio is once of the best, most generous advisors I have ever encountered, generous with ideas, with money, with assistance in the field, and with helping students publish their results. Plus Julio is way nicer to students than most academics, including me. I view this as a sign of weakness, but Julio's former students, and there are well over twenty, really sang his praises in their support letters for this award. Julio's student mentoring is especially impressive when you consider that teaching may be a formal part of my job description, but not Julio's.

Julio, a heartfelt congratulations to you for this award; you are a great desert scientist and a great colleague!



El-Baz awardee Betancourt (center) with Citationist Quade and QG&G Chair Rathburn.

Response by Julio Betancourt:

First, I would like to thank GSA and the Quaternary Geology & Geomorphology Division officers for their service, and congratulate all of the awardees being celebrated tonight for their contributions to science, education, and society. I am both honored and delighted to accept the Farouk El-Baz Award for Desert Research from the Division and the Society.

I want to thank Farouk for lending his name and support to this wonderful award. I knew of Farouk through my friend and neighbor, Vance Haynes, and his stories about their 1978 retracing of Bagnold's expedition in the Lybian Desert. Vance retold a couple of these stories when we dined out recently; fortunately for Farouk, he has sworn me to secrecy.

I also want to thank my citationist, Jay Quade, himself an El-Baz Award recipient and a close friend and colleague. Jay and I have shared many field adventures, including several memorable field seasons exploring the Atacama, arguably the world's driest desert. A friend of mine once remarked that I was either very lucky or very skilled in my choice of colleagues. For making me look good, I want to particularly thank Toby Ault, Steve Gray, Camille Holmgren, Steve Jackson, Claudio Latorre, Greg McCabe, Aaryn Olsson, Greg Pederson, Betsy Pierson, Jeff Pigati, Jason Rech, Mark Schwartz, Felisa Smith, Tom Swetnam, Pete Van de Water, Tom Van Devender, and Bob Webb.

I have had a fortunate career as a research scientist, educator, and public servant tethered to two great institutions, the U.S. Geological Survey

and the University of Arizona. Since my days as a graduate student, I have worked for the National Research Program (NRP) in what is now the Water Mission Area of USGS. NRP was founded in the 1950's by Luna Leopold, a Zeus-like character with crazy eyebrows who frankly scared the living daylights out of me. Since its founding, NRP has focused on long-term investigations that integrate hydrological, geological, chemical, climatological, and biological information relating water resources and environmental problems. To do so, USGS and NRP invest heavily, not just in science, but in scientists like me.

In my case, USGS allowed me to work at the University of Arizona and its Desert Laboratory, both epicenters of interdisciplinary science. Both USGS and the University of Arizona enabled my role in starting the non-profit Southern Arizona Buffelgrass Coordination Center (www.buffelgrass.org), a template for managing spatially-extensive environmental across jurisdictions, and the USA-National Phenology Network (www.usanpn.org). If I have succeeded in working the seams between disciplines and making science work for society, I owe much of it to USGS and the University of Arizona.

At both home institutions, I had many great examples of how to be a successful researcher, colleague, and mentor, including Ray Turner, Ike Winograd, Marshall Moss, Bob Hirsch, Sam Luoma and the late Platt Bradbury at USGS, and Paul Martin, Val LaMarche, Austin Long, Vance Haynes, Vera Markgraf, Vic Baker, Bill Bull, Bill Dickinson, Jeff Dean, and Jim Brown at the University of Arizona.

The Desert Lab on Tumamoc Hill, where I was stationed for 30 years, was a popular stop and intellectual watering hole for notable scientists. When I was a graduate student in the mid-1980s, Paul Martin asked me to take Jared Diamond birding in southern Arizona. Jared and I piled into my Volkswagen bus, and we spent several happy days camping in the grasslands along the Mexican border. I told Jared about my paper presenting evidence for the local extirpation of pinyon-woodland during Anasazi occupation of Chaco Canyon between 800 to 1000 years ago (Betancourt and Van Devender, 1981, *Science*). Later that year, Jared published an essay in the News & Views section of *Nature*, entitled "The

Environmentalist Myth," and I fielded calls from the *New York Times*, *the Washington Post*, and other media outlets. With a single stroke, Jared Diamond had not only saved me from inevitable obscurity, but he also taught me to seize the day and communicate science.

Finally, I would like to admit that I am only as good as my family. My wife Teresa is smart and grounded, and has been my most reliable meter for both good and bad ideas. While I traipsed around in the field, she took care of the home front and mentored Mark, Acacia and Francesca, our three incredible children. From the time he was 7, my son Mark was always my most capable field hand. I can trace priceless samples to countless death marches and climbs Mark made in two continents, and I dedicate this wonderful award to him.

— Gladys W. Cole — Memorial Award

The Gladys W. Cole Memorial Research Award is restricted to investigation of the geomorphology of semiarid and arid terrains in the United States and Mexico. It is given each year to a GSA Member or Fellow between 30 and 65 years of age who has published one or more significant papers in geomorphology. The Fund was established in 1980 by Dr. W. Storrs Cole in memory of his wife. The first award was presented in 1982.

The 2012 award was given to Vance T. Holliday, University of Arizona, for his proposal - *Paleoshorelines and their bearing on alluvial geomorphology in the American Southwest*.



Cole Awardee Holliday

— Student Research Awards —

Our Division offers three student awards: The *J. Hoover Mackin Research Award* was created in 1974 to support graduate student research in Quaternary geology or geomorphology. The *Arthur D. Howard Research Award* was established in 1992 to support graduate student research in Quaternary geography or geomorphology. The *Marie Morisawa Award* was established in 2006 to support a promising female graduate student in geomorphology.

— J. Hoover Mackin Award —

The 2012 Mackin Award for Ph.D. research was given to **Sharon Brywater-Reyes**, University of Montana, for her proposal - *Ecogeomorphic feedbacks within a riparian ecosystem—insights for management of Southwest ecosystems*. Advisor: Andrew Wilcox.

Honorable mention:

Matthew Finkenbinder, University of Pittsburgh, for his proposal *Lake records of abrupt climate change spanning the Younger Dryas from the Wallowa Range, eastern Oregon*. Advisor: Mark Abbott.

— Arthur D. Howard — Research Award

The 2012 Howard Award for M.S. research was given to **Danika Globokar**, University of Washington, for her proposal - *Testing thermoviscous remanent magnetization as a tool to date geomorphic events*. Advisor: Juliet Crider.

Honorable Mention:

Nicholas Sutfin, Colorado State University, for his proposal - *Quantifying mechanistic influences of fluvial form and process on Quaternary carbon storage in mountainous headwaters of the Colorado Rocky Mountains*. Advisor: Ellen Wohl.



Howard awardee Globokar with QG&G Chair Rathburn.

— The Marie Morisawa Award —

The 2012 Marie Morisawa Award was given to **Elizabeth Thomas**, Brown University, for her proposal - *Generating a quantitative record of Holocene terrestrial climate on western Greenland to decipher mechanisms controlling ice sheet discharge and sea level rise*. Advisor: Yongsong Huang.

— Robert K. Fahnestock — Memorial Award

The 2012 Fahnestock award honors the memory of the former member of the Research Grants Committee, who died indirectly as a result of service on the committee. The award is given for the best proposal in sediment transport or related aspects of fluvial geomorphology.

The 2012 recipient was **John Templeton**, Columbia University for - *Constraining structural models of the Devonian Hornelen basin, Norway, with detrital zircon provenance*.

— The John Montagne Fund —

The Montagne fund was established in 2000 to support one student's research in Quaternary Geology and Geomorphology. The 2012 recipient was **Nicholas Sutfin**, Colorado State University for - *Quantifying the mechanistic influences of fluvial form and process on Quaternary carbon storage in mountainous headwaters of the Colorado Rocky Mountains*.



**Montagne Fund awardee and Howard award honoree
Nicholas Sutfin with QG&G Chair Rathburn.**

MISCELLANEA

International Association of Geomorphologists (IAG)

The organizing committee of the 16th Joint Geomorphological Meeting on "Morphoevolution of Tectonically Active Belts" to be held in Rome, Italy, on July 1 - 5, 2012, informs the international geomorphological community that a dedicated website exists at the following address:

<http://www.16jgm-rome2012.org/>

European Geosciences Union

The European Geosciences Union has created web pages for its divisions. For the Geomorphology division, we are looking to build a useful and exciting site that provides the research and student community with up to date news, information about meetings and publications, training opportunities and job openings at all levels, research and teaching resources, links and networking mechanisms. It will be a site for you to post and to find material, to learn about and broadcast what is happening in geomorphology. The pages went live on November 1, 2010.

MRI DATABASE

For those interested in integrated global change research, we would like to draw your attention to the database being built by the Mountain Research Initiative (MRI) in Bern, Switzerland.

The database is MRI's central networking tool to connect people from research, government, NGOs and the private sector involved in the issue of global change in mountain regions in one way or another. It includes both contact information and details on the participants' areas of expertise. To date the database already comprises close to 3000 entries. Make (or revise) your entry now at: <http://mri.scnatweb.ch/content/view/40/44/>.

MRI's goals are to advance the understanding of how global change, especially climate change, will impact mountain environments, peoples and economies throughout the world, and to promote the use of that understanding in the pursuit of sustainable management of mountainous regions. MRI is endorsed by IGBP, IHDP, GTOS and the MAB Program. Find out more at our new website: <http://mri.scnatweb.ch>.

DENDROCHRONOLOGY DATABASE

The Bibliography of Dendrochronology is an archive of printed documents relevant to tree-ring research worldwide, that you can search for free. It was compiled and is constantly updated by Henri D. Grissino-Mayer. It currently contains over 8200 references dating back to 1737. <http://www01.wsl.ch/dendrobiblio>

You are welcome to contribute by sending reprints of relevant publications to:

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Department of Geography
University of Tennessee
Knoxville, TN 37996
(865) 974-6029
<http://web.utk.edu/~grissino>

IAG NEWSLETTER

IAG Newsletters are available on the IAG Website:
<http://www.geomorph.org>

GEOMORPHORUM

The newsletter of the Association of American Geographers (AAG) Geomorphology Specialty Group can be accessed at:
<http://www.aag-gsg.org//geomorphorum.shtml>

PAGES - (PAst Global changES)

The core mission of PAGES is to facilitate international collaborations and interdisciplinary science, especially between individuals involved in national programs with overlapping interests. The PAGES scope of interest includes the physical climate system, biogeochemical cycles, ecosystem processes, biodiversity, and human dimensions. The emphasis is on high-resolution studies of global change – such as those stored in ice cores, tree rings, speleothems, corals, lakes, marine records, etc. – and the use of these data for making sound estimates of future global change.

What is PAGES and how can a GSA/Quaternary Member get involved? <http://www.pages.unibe.ch>.

PAGES even played a key role with NOAA in establishing the WDC-A for Paleoclimatology as the central depository for global paleoclimate data.

WDC-A stands for World Data Center for Paleoclimatology, which is a part of the NOAA National Climate Data Center (NCDC).

<http://www.ngdc.noaa.gov/paleo/paleo.html>

CGRG BIBLIOGRAPHY OF CANADIAN GEOMORPHOLOGY

<http://cgrg.geog.uvic.ca/cgi-bin/search.cgi>

1. The Bibliography of Canadian Geomorphology is a searchable database dedicated to identifying publications and presentations describing the practice and application of geomorphology in Canada. Included are over 18,000 records related to the fields of aeolian, applied, coastal, fluvial, glacial, hillslope, karst, periglacial, permafrost and offshore geomorphology. The database also includes records describing Canadian Quaternary/Holocene environments and a substantial body of records related to Canadian hydrology.

2. Recent Publications in Canadian Geomorphology: <http://cgrg.geog.uvic.ca/list.htm>.

QG&G Board Meeting Minutes

Sunday, November 4, 2012

7:00 PM-9:00 PM, Westin Hotel, Harris Room,
Charlotte, NC

Attending:

Officers

Kyle House*, Past Chair

Sara Rathburn, Chair

Jim O'Connor, 1st Vice Chair

Alan Nelson, 2nd Vice Chair

Dave Dethier, 2nd Vice Chair elect

Jon Major, Secretary

Sarah Lewis, Secretary elect

Scott Burns, Treasurer

Dennis Dahms, Newsletter editor/Webmaster

Thom Davis, Historian

Panel:

Karen Gran, Anne Jefferson, Tammy Rittenour

2010-2012 Panel (outgoing)

Ben Laabs*, MaryAnn Madej, Margaret Berry*

2011-2013 Panel

Sara Mitchell, Meredith Kelly*, Amanda Schmidt

2012-2014 Panel (incoming)

Ziad Sedki, student

Other invitees:

Diane Lorenz*, GSA

John Holbrook, GSA Council liaison

Wesley Hill, GSA Division liaison

* Sent regrets for not attending

Meeting called to order at 7:08pm

GSA Division Chair's Report: Sara Rathburn (Chair) gave a summary of the division chair's meeting held Saturday, November 3. The division is healthy with respect to membership numbers. We are one of GSA's larger divisions, with membership of 1426 (as of September 2012). Items on the meeting agenda of note to the division included: (1) GSA's 125th anniversary celebration in Denver. GSA wants each division to help contribute something special toward the meeting, such as special sessions, field trips, workshops, etc. GSA encourages innovative sessions that do not follow the typical session norm. The board will put out a call to the membership seeking innovative session proposals as well as for session proposals that cover the major themes of

interest to QG&G. The board discussed how to better deal with proposed sessions that get merged together, and with sessions that do not draw the required minimum number of abstracts. Board will suggest that GSA send all division chairs a notice of all sessions that have been proposed so that chairs can help monitor for duplication of session proposals and help find proper homes for all proposed sessions. **Jim O'Connor** (1st Vice Chair) suggested we again develop a set of specific themes for which we would like to see session proposals and then solicit people to develop proposals. The division tried this a few years ago with some success and we should continue to encourage this model. (2) QG&G needs a formal division logo. GSA wants to reinforce the society's branding, and a logo is a good way to do this. GSA wants each division to have a logo in place for the 125th anniversary. The division chair solicited logo designs via blast emails, and we received 5 submissions. At the awards ceremony on Tuesday, November 6, we will put all of the submitted logos on a screen and have a voice vote of the membership in attendance to select a logo. Once we have an approved logo design, the division can arrange to have it embroidered on clothing, printed on mugs and bottles, etc. GSA will let each division have a booth at the annual meeting at no cost. At this booth, the division can offer these items as a gift for a donation, and use them to help raise funds for the division. [At the awards ceremony, a logo submitted by Peter Birkeland and Shemin Ge was overwhelmingly selected as the preference of those in attendance.] An action item for the board is to work with Birkeland, Ge, and GSA to finalize the logo into proper format and to then get it emblazoned onto items for display at a booth at the 2013 annual meeting. (3) GSA is trying to engage more in social media outreach, and making a big push to get into digital media and applications. As part of this effort, GSA is creating a GSA Connected Community (<http://community.geosociety.org>). This will be a website where divisions can archive material, host a blog, set member profiles, communicate with members, etc. It is somewhat like a GSA version of Facebook. Members will be able to set profiles, choose the communities they wish to interact with, etc. At the Charlotte meeting, GSA revealed a beta version of the site. They will send out information to all society members about this community website in the coming months.

Treasurer's report: Scott Burns (Treasurer) reported that in fiscal year 2011-12, the Division had a total income of \$10,638, and total expenses of \$13,847 for a net deficit spending of \$3209. Most of that deficit came from greater than expected costs for catering the board

meeting and awards ceremony, continued subsidy of the Howard and Kirk Bryan awards, and greater than expected cost of the dues the division pays to the International Association of Geomorphologists (IAG). Owing to incomplete recovery from the market downturn of foundation funds that support the Howard and Kirk Bryan award and creeping catering costs for the awards ceremony (which is a non-ticketed event open to all), the division asked the membership for, and was granted, a minor (\$2) increase in dues for professional members in summer 2012. Dues were last increased in 1999. This slight increase in dues, along with continuing market recovery, should alleviate the deficit spending the division has endured the past few years. For fiscal year 2012-13, Scott presented a budget having projected income of \$9600 from dues, \$1000 from a donor as a pass-through subsidy for students for the Kirk Bryan field trip, and projected expenses of \$10,475, for a projected surplus of \$125 (see attached report). As of June 2012, the Division has total reserve assets of \$6217. Scott noted that as award base funds continue to rebound and grow, the division will ease out of supplementing some of the awards, and our reserve funds should grow. Motion to approve the proposed budget for 2012-13 was seconded and approved.

Easterbrook Distinguished Scientist Award: Scott Burns noted that he and GSA have tried to engage Don Easterbrook in further discussion regarding funding for the Distinguished Scientist Award. The division still needs to fund the award for our last awardee from 2009 (\$25k), but the foundation fund is not sufficient to do so (as of June 2012, the award fund was \$10,160). Scott has found a donor who is willing to put up half the balance difference for the award, and this is something he and GSA will try to discuss with Don. The division officer board felt that the award really needs to have an endowment capable of fully supporting the award before it come out of its hiatus status.

Ginger Williams (GSA Foundation) provided the following information regarding the base funds for the Division awards (as of June 2012):

Kirk Bryan award: \$94,142

Don J. Easterbrook Distinguished Scientist award: \$10,160

Farouk El-Baz award: \$198,385

Arthur D. Howard (MS) student award: \$46,455

J. Hoover Mackin (PhD) student award: \$70,485

Gladys W. Cole Memorial research grant: \$162,210

Marie Morisawa fund: \$58,229

John Montagne fund: \$14,784

Robert Fahnestock award: no foundation fund

GSA allows divisions to use up to 5% of the average value of the base funds from the preceding two years to support awards as long as the base funds exceed \$40,000.

Membership report: The membership was 1426 as of September 10, 2012.

Election: The election for 2012-2013 QG&G officers closed July 5, 2012. In that election, 17.1% of QG&G members voted (255 out of 1493 eligible). Newly elected board and panel members are: Dave Dethier (2nd Vice Chair), Sarah Lewis (Secretary), Meredith Kelly, Sara Gran Mitchell, Amanda Henck-Schmidt (panelists). Jim O'Connor was elected Chair, and Alan Nelson 1st Vice Chair.

Quaternary Geology and Geomorphology Fellows elected in 2012 are:

Marc W. Caffee	W. Andrew Marcus
Randel Tom Cox	Alan R. Nelson
Dennis E. Dahms	John C. Pitlick
P. Dethier	Robert C. Walter
Angela Jayko	

2013 Annual GSA meeting, Denver, CO. The board discussed again the need to have various topical themes represented at the national meetings, and to have some knowledge early on of topical themes being submitted that request QG&G sponsorship. One idea regarding sponsorship is to have proposers send the QG&G chair advance notice regarding a theme session that they would like to propose (perhaps a month in advance of the proposal deadline). This will give the chair a chance to discuss the proposal with the QG&G board if needed, will help avoid potential duplication of efforts among proposers, and will keep the chair from being blindsided at the last minute with a sponsorship request. In past years, the Chair has sent an email to the membership requesting that notice of session proposals be submitted to QG&G in advance of the proposal deadline. That seemed to work reasonably well, and the approach will be tried again this year. The board also experimented with selecting various themes in advance, and sending out an email to the membership soliciting members to propose topical sessions related to those themes. This also seemed to work well and will be done again. The board felt that the following themes should be represented at the national meeting: soils, glacial geomorphology, coastal geomorphology, tectonic geomorphology, aeolian processes, geochronology,

fluvial geomorphology, climate studies, paleoclimate studies, hillslope geomorphology, geomorphic hydrology. **Jim O'Connor** (incoming Chair) will send out an email to the membership announcing the idea, and urging the membership to target topical sessions related to those themes for the Denver 2013 meeting. GSA Council has also stated a policy encouraging new and innovative types of sessions in future meetings, not simply the standard short-talk style sessions. Jim will encourage the membership to submit novel session ideas. The 2013 JTPC representatives will be **Jim O'Connor** (incoming Chair) and **Alan Nelson** (incoming 1st Vice Chair).

Denver meeting Kirk Bryan field trip. The board received a proposal from Suzanne Anderson, Bob Anderson, David Dethier (2nd Vice Chair elect), and Greg Tucker regarding a Kirk Bryan trip for the Denver 2013 meeting. They have proposed a trip to the Rocky Mountain foothills in Boulder to examine Critical Zone evolution. The board voted unanimously to approve the proposal, and had some suggestions for Suzanne and others to consider regarding trip logistics.

Division/Associated Societies Chair's meeting will be held in Boulder, CO, in mid- to late April, 2013. The division sends two representatives to the meeting (Chair and 1st Vice Chair) when possible. GSA contributes up to \$700 toward the costs of Division attendees to this meeting, and the Division contributes \$300. **Jim O'Connor** and possibly **Alan Nelson** will attend the meeting.

Student awards: A new graduate student award named in honor of Stanley Schumm has been created. The award will focus on proposals in fluvial geomorphology. The first award will probably be granted in a couple of years, because the foundation fund must accrue a base value of \$25,000 before it can be awarded. The foundation fund is now open and donations are encouraged.

Owing to inconsistent policies among awards, the board discussed awarding honorable mention recognition for the named student awards. Now that the number of student awards is growing, having to select both a principal awardee and an honorable mention recognition is becoming a bit burdensome to the selection committee given the number of proposals that must be read. The merits and drawbacks of recognizing honorable mention status was vigorously discussed, particularly in light of the fact that the division no longer recognizes a tie

among proposals for a given award. One solution suggested was that honorable mention recognition no longer be mandatory for each award, but instead be discretionary for truly exceptional proposals that are of quality comparable to the proposal given the award, but did not rank as the top proposal. A motion to eliminate mandatory recognition of honorable mention was seconded and approved.

El-Baz award for desert research. The board received an inquiry regarding the criterion of eligibility for this award. Eligibility for the award stipulates that it is for 'warm' desert research, but inquiries about this award have highlighted some ambiguity, particularly with regard to time and spatial scales, about how 'warm desert' is defined. **Jim O'Connor** (incoming chair) will draft a letter defining the board's interpretation of 'warm desert' and send it to Farouk El-Baz to determine if that definition accurately captures Farouk's intent for the criterion for this award.

QG&G facebook page. The division maintains a facebook page, but has not actively kept it up to date, nor closely tracked its usage. The board discussed whether to keep this page active. It was suggested that the board use this page to engage with the younger generation of students by soliciting a student representative to help keep the page fresh. To further this idea, the board decided that one way to engage communication with division students was to invite awardees of division student awards to attend the annual board meeting as courtesy attendees. These student attendees hopefully could serve as connections between the board and the student membership.

Special session on life and legacy of Kirk Bryan. The board received an email inquiry from Mark Howe about the possibility of proposing and organizing a special session at the Denver 2013 meeting regarding the life and scientific legacy of Kirk Bryan. The board thought this was an intriguing idea, and one that could be considered for the 125th anniversary meeting. The board suggested that Howe also consider passing the idea by the History of Geology Division. Another idea is to consider having a session focused on the scientific legacies of some of the luminaries in QG&G rather than on a single person. These thoughts were communicated back to Howe.

QG&G webpage. **Alan Nelson** (2nd Vice Chair) raised the thought that the QG&G website might be ready for a facelift, and **Dennis Dahms** (webmaster) agreed that

both a facelift and ease of accessing the website internally are issues of concern. Sara Rathburn noted that the GSA representative who is working on GSA's Connected Community website would be a good contact to discuss the possibility of an updated design and his contact information was passed along to Dennis.

Awards: The annual awards ceremony was held Tuesday, November 6, 2012, 7-11 PM at the Charlotte Convention Center, Charlotte, NC. In addition to handing out the Division's student and professional awards, those in attendance also voted on a division logo.

Kirk Bryan Award

Neal R. Iverson, T.S. Hooyer, J.F. Thomason, M. Graesch, and J.R. Shumway, Iowa State University, for their paper *The experimental basis for interpreting particle and magnetic fabrics of sheared till*, Earth Surface Processes and Landforms, v. 33, p. 627-645 (2008)

Distinguished Career Award

Ken Pierce, U.S. Geological Survey

Farouk El-Baz Award

Julio Betancourt, U.S. Geological Survey

Gladys W. Cole Memorial Research Grant from GSA

Vance T. Holliday, University of Arizona, for his proposal *Paleoshorelines and their bearing on alluvial geomorphology in the American Southwest*.

J. Hoover Mackin (PhD) Award

Sharon Bywater-Reyes, University of Montana, for her proposal *Ecogeomorphic feedbacks within a riparian ecosystem—insights for management of Southwest ecosystems*: advisor Andrew Wilcox.

Honorable mention:

Matthew Finkenbinder, University of Pittsburgh, for his proposal *Lake records of abrupt climate change spanning the Younger Dryas from the Wallowa Range, eastern Oregon*: advisor Mark Abbott.

Arthur D. Howard (MS) Award

Danika Globokar, University of Washington, for her proposal *Testing thermoviscous remanent magnetization as a tool to date geomorphic events*: advisor Juliet Crider.

Honorable mention:

Nicholas Sutfin, Colorado State University, for his proposal *Quantifying mechanistic influences of fluvial form and process on Quaternary carbon storage in*

mountainous headwaters of the Colorado Rocky Mountains: advisor Ellen Wohl.

Marie Morisawa Award (for promising female graduate student)

Elizabeth Thomas, Brown University, for her proposal *Generating a quantitative record of Holocene terrestrial climate on western Greenland to decipher mechanisms controlling ice sheet discharge and sea level rise*: advisor Yongsong Huang.

Thanks to the student awards panel: Alan Nelson, Timothy Fisher, Mark Sweeney, Karl Wegmann, Bud Burke, Scott Linneman, Karen Prestegaard, Amanda Keen-Zebert, Brandon McElroy.

Robert K. Fahnestock Memorial Award from GSA
John Templeton, Columbia University

John Montagne Fund from GSA
Nicholas Sutfin, Colorado State University

Necrology

Ron Greeley, October 27, 2011

Bruce Curtis, February 15, 2012

Frank Whitmore, March 18, 2012

James Butler, April 1, 2012

Dale Ritter, June 1, 2012

Stephen Norwick, June 20, 2012

Robert Norris, August 29, 2012

F. Beach Leighton, October 3, 2012

Jim Knox, October 6, 2012

Meeting adjourned at 9:30pm.

Division Newsletter Editors

Many Divisions “publish” their newsletters mainly by posting them on their Division websites. All Division websites can be accessed from:

<http://www.geosociety.org/sectdiv/divisions.htm>.

Archaeological Geology – Spring, Fall

Contact: Chair, Loren Davis,
loren.davis@oregonstate.edu

Coal Geology – No set schedule.

Contact: Chair, Sue Rimmer, srimmer.siu.edu

Environmental and Engineering Geology – Spring, Summer, Fall

Contact: Chair, William Schultz, [wschultz@usgs.gov](mailto:w Schultz@usgs.gov)

Geobiology & Geomicrobiology – No set schedule.

Contact: Chair, Frank Corsetti fcorsett@usc.edu

Geoinformatics – No set schedule.

Contact: Chair, Walter Snyder, wsnyder@boisestate.edu

Geology & Health – No set schedule.

Contact: Chair, Robert Finkelman, bofb@utdallas.edu

Geology & Society – No set schedule.

Contact: Chair, Craig Cooper, craig.cooper@inl.gov

Geophysics – No set schedule.

Contact: Chair, Audrey Huerta,
huertaa@geology.cwu.edu

Geoscience Education – Winter, Summer

Contact: Chair, Sadredin Moosavi,
smoosavi@charter.net

History of Geology – Quarterly.

Contact: Chair, Ken Aalto, kra1@humboldt.edu

Hydrogeology – Spring/Summer, Fall

Contact: Chair, Steve Ingebritsen, seingebr@usgs.gov

Limnogeology – No set schedule.

Contact: Chair, Daniel Deocampo deocampo@gsu.edu

Mineralogy, Geochemistry, Petrology, Volcanology

Contact: Chair, Russell Harmon,
russell.harmon@us.army.mil

Planetary Geology – Summer or Fall

Contact: Chair, Simon Kattenhorn, simkat@uidaho.edu

QG&G – Spring/Summer, Fall

Contact: Newsletter editor Dennis Dahms,
dennis.dahms@uni.edu

Sedimentary Geology – Spring, Fall

Contact: Chair, Richard Langford, langford@utep.edu

Structural Geology & Tectonics – Spring, Fall

Contact: Chair, Ronald Bruhn, ron.bruhn@utah.edu

MEMBERS OF GSA QG&G DIVISION

Ballot for 2013-2014 Officers - Quaternary Geology & Geomorphology Division (QGG)

Please vote by completing the section at the bottom and mailing it to GSA postmarked no later than July 22, 2013. Biographical data for the candidates are on the pages following this ballot.

You may vote online by July 22 at: <http://rock.geosociety.org/ballot/vote.asp?Name=qgg>

Access the online ballot using your GSA member number or your e-mail address if it is in your GSA records. For assistance, please contact GSA at gsaservice@geosociety.org or (303) 357-1000 or call toll-free in the U.S. at (888) 443-4472. You may also submit your ballot by Fax (303) 357-1074.

Chair (one-year term):

Alan R. Nelson Write-in _____

1st Vice-Chair (one-year term):

Dave Dethier Write-in _____

2nd Vice-Chair (one-year term; vote for one candidate):

Anne Chin Write-in _____

Glenn Thackray

Treasurer (two-year term):

Scott Burns Write-in _____

Newsletter Editor/Webmaster (two-year term)

Dennis Dahms Write-in _____

Panelists (two-year term; vote for three (3) candidates):

Patrick Belmont Amy Brock-Hon Gregory Hancock

M. Scott Harris Brandon McElroy Andrew Wilcox

Write-in _____

Mail to: Division Office, Geological Society of America, PO Box 9140, Boulder, CO, 80301-9140

You must complete the following section to validate your ballot:

Your Name (printed) _____

Your Signature (required) _____

Your GSA Member Number * (required) _____

* Your 7 digit GSA member number is on the top right corner on the external mailing label. If you need assistance with your member number, call: (888) 443-4472

Biographies of Candidates for 2013-2014 Officers QG&G Division

Chair 2013-2014 (1 year term)

Alan R. Nelson: Education: BS, MS, University of Wisconsin-Madison; PhD, University of Colorado-Boulder. Experience: Geologist, U.S. Bureau of Reclamation, Denver, 1979-1985; Research Affiliate, INSTAAR, University of Colorado, 1981-present; Research Geologist, USGS, Golden, CO 1985-present. Awards: Killam Fellowship, Dalhousie University, 1978-79; Gilbert Fellowship, USGS, 1989; Memberships: GSA 1972-, AMQUA 1972-, SEPM 1980-1992, AEG 1990-1999, IGCP-274,367, AGU, SSA, Tsunami Society. Service: Editorial Board, Geology 1987-1989; QG&G Secretary 1998-2002; College of Reviewers for Canada Research Chairs Program 2003, 2010. Research: Paleoseismology and tsunami hazards in U.S. Pacific Northwest, Alaska, Chile; intertidal stratigraphy and micropaleontology applied to coastal tectonics; paleoseismic records in lakes; paleoseismology of reverse faults in U.S. Pacific Northwest; neotectonics, geomorphology, amino acid dating, and soils in Basin and Range, western U.S.

First Vice-Chair 2013-2014 (1 year term)

David Dethier. Education: BA, Dartmouth College; MS and PhD, University of Washington. Experience: Project geologist, USGS, Seattle; Staff Member, Los Alamos National Laboratory; Professor of Geosciences, Williams College. Professional affiliations: GSA, AGU, Soil Science Society of America, AAAS. AAAS Nominating Committee, Geology and Geography Section, 96-98. GSA Service: GSA QG&G Management Board 99-02. Research Interests: Weathering and erosion history of the Front Range, Colorado; geochemistry and hydrology of surface and ground water systems; glacial history of northwestern Washington.

Second Vice-Chair – 2013 - 2014 (1 year term)

Anne Chin. Education: BA, University of California, Los Angeles; PhD, Arizona State University. Experience: Assistant Professor and Associate Professor, Texas A&M University; Professor (since 2010), University of Colorado Denver; Program Director, NSF (2006-2007). Professional Affiliations: GSA, AGU, AAG. GSA Service: Session co-chair (2012); Reviewer, GSA Bulletin and Geology; Other Service: Editor-in-Chief, Anthropocene (since 2012), Editor, Earth-Science Reviews (since 2011); Member, NRC Committee on Challenges and Opportunities in Earth Surface Processes (2007-2010); Chair, AAG Geomorphology Special Group (2006-2007), Delegate, IAG (2008-2009); Awards: Leopold Leadership Fellowship (Stanford University 2009), G.K. Gilbert Award for Excellence in Geomorphological Research (AAG 2004), Distinguished Achievement Award in Teaching (Texas A&M 2002), Montague Scholar Award (Texas A&M 1998). Research Interests: energetics of mountain, dryland, and urban rivers; human interactions with Earth systems.

Glenn Thackray. Education: BS, Beloit College; MS, University of Oregon; PhD, University of Washington. Experience: Hydrology consultant, Eugene, OR, 1988-1990, Asst./Assoc./Full Professor, Dept. of Geosciences, Idaho State University 1994-present, Chair 2010-present. Professional Affiliations: GSA, AGU, AMQUA. GSA Service: QG&G Panelist 2003-2005, Academic & Applied Geoscience Relations Committee, 2013-2016. Other Service: Chair, INQUA Mountain Glacier Research Group, 2003-2007. Awards: ISU Distinguished Service Award, 2010. Research Interests: Mountain glacier processes and chronologies in North America and New Zealand; active tectonics; remote sensing of active geologic processes; hydrogeology.

Treasurer - 2013-2015 (2 year term)

Scott Burns: Education: BS, MS Stanford University; PhD University of Colorado. Experience: Professor & Chair, Dept. of Geology, Portland State University; previous institutions: Louisiana Tech University, University of Colorado, Western Washington University, Lincoln College New Zealand, American College of Switzerland. Professional Affiliations: GSA Fellow, AGU, NAGT, AEG (Past President), AIPG. GSA Service: Treasurer, QGG, Chair of EGD, Chair Cordilleran Section. GSA Awards: EGD Meritorius Service Award and Outstanding Practice Award, Public Outreach Award and GSA/AEG – Richard Jahns Distinguished Lecturer Award. Research interests: landslides, slope stability, Missoula Floods, terroir, radon, soil development, glacial geology, heavy metals and trace elements in soils.

Newsletter Editor/ Webmaster – 2013-2015 (2 year term)

Dennis Dahms: Education: BJ Journ, AM Doc Film, Univ Missouri-Columbia; MA Anthro, Univ Colorado-Denver; PhD Phys Geog, Univ Kansas. Prof Experience: Producer/Editor, Film Documentary, South Carolina Public Broadcasting, 73-77; Science Applications, Staff Geomorphologist, 80-83; Univ Northern Iowa, Dept Geog, Asst Prof 90-95, Assoc Prof 96-04, Prof 05-present. Conct Pos: Visiting Prof, Univ Missouri, Dept Geology, Camp E.B. Branson, Lander, WY, '96-'11; Vis. Prof., Geochronology Field School, Univ. of Zurich, '10-pres. Prof Affiliations: GSA Fellow '12, Mbr since 81; AAG, AGU, INQUA, CGRER Exec Brd (Univ Iowa), Leopold Ctr for Sust Ag, Advis Brd (Ia St Univ). GSA Serv: QGG nwsltr edtr/web manager 03-pres. Research Interests: Quaternary stratigraphy & history, soil geomorphology, mountain geosystems, Wind River Range.

Panelists for Award Evaluations- 2013-2015 (2 year term) Choose 3 Candidates:

Patrick Belmont. Education: BS, Texas Christian University; MS and PhD, Lehigh University. Experience: Post-doctoral Research Associate, University of Minnesota; Assistant Professor of Hydrology and Geomorphology, Department of Watershed Sciences, Utah State University. Professional Affiliations: GSA, AGU, Utah Geological Association. GSA Service: Convened Special Sessions in 2009 and 2011; Co-leader of 2011 Kirk Bryan Field Trip, Peer reviewer for GSA Bulletin, Geology, Geosphere. Awards: QG&G Robert K. Fahnestock Memorial Research Award, 2005; QG&G J. Hoover Mackin Award, 2005; Research Interests: Hydrology and geomorphology, with an emphasis on landscape and river channel change over geologic and human timescales.

Amy Brock-Hon. Education: B.S. Geology, Oklahoma State University; M.S. and Ph.D. Geoscience, University of Nevada, Las Vegas. Experience: Assistant Professor, University of Tennessee at Chattanooga, 2010-present. Previous institution: Western Illinois University 2007-2010. GSA Service: QG&G Student Research Proposal Reviewer 2009; Session Co-chair 2010. Professional Affiliations: GSA, SSSA, CUR, and NAGT. Awards: International Union of Soil Sciences Young Soil Micromorphologist Publication Award. Research Interests: Arid and semi-arid soil-geomorphology, soil mineralogy and micromorphology. I have a great interest in interdisciplinary work involving geology/geomorphology and soil science.

Gregory Hancock. Education: BA, Middlebury College; MS, University of California/Santa Cruz; PhD, University of California/Santa Cruz. Experience: Project Manager, Groundwater Technology, 1989-1992; Professor, College of William and Mary, 1998-present. Professional Affiliations: GSA, AGU, AWRA. GSA Service: Editorial Board, Lithosphere, 2008-present; Co-Chair, Field Trip Committee, GSA Denver Meeting 2014. Other Service: Panelist, NSF Geomorphology and Land Use Dynamics, 2005-2007. Awards: GSA Biggs Teaching Award, 2004; GSA Robert Fahnestock Memorial Grant, 1996. Research Interests: Landscape evolution; process and form in bedrock-floored channels; cosmogenic radionuclide dating; geomorphic and hydrologic response to land disturbance in agricultural and urban settings.

M. Scott Harris. Education: BS, College of William and Mary; MS, University of Virginia; Ph.D., University of Delaware. Experience: 2008-present, College of Charleston, Geology and Environmental Geosciences; 1998-2007, Coastal Carolina University, Marine Science; 1996-98, USGS Research Associate. Professional Affiliations: GSA, AMQUA, Divers Alert Network. GSA Service: 2009-10, NE-SE GSA Meeting Organizing Committee. Other Service: 2007-11, SC Shoreline Change Committee; 2008-12, Advisory Council Member, Gray's Reef National Marine Sanctuary; Reviewer for NSF, National Sea Grant, Sedimentology, JGR-Earth Surface. Awards: 2009, Best Paper, 10th Biannual International Coastal Symposium. Research Interests: Coastal plain and continental shelf evolution; seafloor mapping and habitat delineation; geoarchaeology.

Brandon McElroy. Education: BS, MS, University of Michigan; PhD, University of Texas. Experience: Physical Research Scientist, U.S.G.S., 2009-2011; Assistant Professor, University of Wyoming, 2012-present. Professional Affiliations: GSA, SEPM, AGU. GSA Service: Associate Editor, Geosphere, 2013-present; Panelist, QG&G Howard Award, 2012. Research Interests: geomorphology, sedimentary processes, Earth history.

Andrew Wilcox. Education: BA, Stanford University; MS, University of California, Berkeley; PhD, Colorado State University. Experience: University of Montana, Assistant Professor 2007-present; USGS Geomorphology and Sediment Transport Lab, Postdoctoral Researcher 2005-07. Professional Affiliations: GSA, AGU. GSA Service: Ad-Hoc reviewer, Geology, GSA Bulletin. Other Service: Associate Editor, Environmental Management 2012-present; ad-hoc reviewer for NSF and multiple journals; Director, University of Montana Center for Riverine Science and Stream Renaturalization 2011–present. Research Interests: ecogeomorphic feedbacks, geomorphic responses to dam removal, stream restoration science, sediment transport.

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