



*CONTENTS*

President’s Column	1	A First-Timer’s Experience of the Conference	8
Geoscience Information Society 2019 Officers	2	2018 GSIS Meeting Highlights	9
GSIS Meeting Photos By Shaun Hardy	3, 4, 10	Recap of Geoscience Librarianship 101	11
Vice President’s Column	4	New Guidebooks - GSIS Guidebooks Committee	11
Musings	5	New Popular Geosciences Reading for the Holidays	13
Review: Publons Provides Credit for Peer Review	6	GSIS Awards awarded at 2018 Conference	15
More Musings: Jupyter Notebooks	7	Geoscience Information Society 2018 Budget	22

## President's Column: 2018 Top Trends in Geoscience Education

By Chris A. Badurek

After a year of significant changes to the geoscience landscape, a few of the top trends are coming into focus. After viewing presentations and engaging in discussion with vendors at the GSA 2018 Conference in Indianapolis in November 2018, three major themes emerged of importance for 2019. These themes were also evident in the conference program of the AGU’s Conference in Washington, DC in December 2018.

### *3. Significant Changes in Space Allocation*

A major focus of GSIS conversation at the GSA 2018 Meeting was the current state of the USGS Library and changes to its four branches. In particular, changes to the primary Denver-area location and the potential for movement of the collections to other academic or governmental institutions was discussed at length. Formal information from the USGS has been relatively limited and while the exact details of the plans for changes to the USGS Library location in Denver continue to evolve, there is no mistaking significant changes for the USGS Library in 2019 (Cartier 2017). This development has mirrored other trends in academic libraries in

terms of moving large proportions of collections offsite followed by reuse of formally dedicated geoscience information spaces to other related or often times unrelated uses.

### *2. Have we reached Peak Publishing?*

At the 2018 GSIS Professional Issues Roundtable, an interesting point was raised about the state of the geoscience publishing industry: have we reached “peak publishing”? Similar to the idea of ‘peak oil’, this question suggests we have reached the high point of publisher profitability and we can expect a future decline due to changes in publishing models. The question was raised in response to the ‘Plan S’ announcement in early September 2018 by European funding agencies to greatly accelerate the movement towards open access publishing (Else 2018). The plan is geared to reducing or eliminating the commonly used hybrid models of publishing which maintain form of paywall. With details of accomplishing this are limited, publishers are increasingly concerned about the future, especially the long term effects of open access on profitability.

**(Continued on page 3)**

## Geoscience Information Society 2018 Officers

---

### **President**

Christopher A. Badurek, PhD, GISP  
Assistant Professor  
Department of Geography  
Co-Director, SUNY Cortland Regional GIS Laboratory  
231A Old Main  
SUNY Cortland  
PO Box 2000  
Cortland, NY 13077  
e-mail: [christopher.badurek@cortland.edu](mailto:christopher.badurek@cortland.edu)

### **Vice President (President-Elect)**

Cynthia L. Prosser  
Physical Sciences Librarian  
Science Collections and Scholarly Communication  
Science Library  
University of Georgia Libraries  
Athens, GA 30602  
Phone: (706) 542-0155  
e-mail: [cprosser@uga.edu](mailto:cprosser@uga.edu)

### **Immediate Past President**

Robert Tolliver  
Sciences Librarian | NDSU Libraries  
North Dakota State University  
218C Library  
Fargo, ND 58108-6050  
Phone: (701) 231-7351  
e-mail: [robert.tolliver@ndsu.edu](mailto:robert.tolliver@ndsu.edu)

### **Secretary**

Stephanie Earls  
Washington Geological Survey  
1111 Washington St. SE, MS 47007  
Olympia, WA 98504-7007  
Phone: (360) 902-1473  
[stephanie.earls@dnr.wa.gov](mailto:stephanie.earls@dnr.wa.gov)

### **Publications Manager**

Richard Huffine  
Phone: 202-253-3511  
e-mail: [richardhuffine@yahoo.com](mailto:richardhuffine@yahoo.com)

### **E-mail List:**

<https://lists.princeton.edu/cgi-bin/wa?A0=Geonet>  
Moderator: Emily Wild  
e-mail: [ewild@princeton.edu](mailto:ewild@princeton.edu)

### **Publicity**

Shaun Hardy  
Carnegie Institution for Science  
DTM-Geophysical Laboratory Library  
5241 Broad Branch Road, N.W.  
Washington, DC 20015  
Phone: (202) 478-7960  
e-mail: [shardy@carnegiescience.edu](mailto:shardy@carnegiescience.edu)

### **Treasurer**

Bridget Thrasher  
Earth & Environmental Sciences Librarian  
Civil & Environmental Engineering Librarian  
Branner Earth Sciences Library & Map Collections  
397 Panama Mall, MC: 2211  
Stanford University  
Stanford, CA 94305  
Phone: (650) 736-2131  
e-mail: [bthrasher@stanford.edu](mailto:bthrasher@stanford.edu)

**Web Site:** <http://www.geoinfo.org/>

### **Webmaster**

Courtney Hoffner  
Science and Engineering Librarian  
University of California - Los Angeles  
8251 Boelter Hall  
Box 951598  
Los Angeles, CA 90095-1598  
Phone: (310) 825-0190  
email: [choffner@library.ucla.edu](mailto:choffner@library.ucla.edu)

### **Newsletter Co-Editor**

Amanda Bielskas  
Columbia University Libraries  
1190 Amsterdam Ave.  
601 Schermerhorn  
New York, NY 10027  
Phone: (212) 854-6767  
e-mail: [asb2154@columbia.edu](mailto:asb2154@columbia.edu)

### **Newsletter Co-Editor**

Michael Noga  
MIT Libraries  
14S-222  
77 Massachusetts Ave  
Cambridge, MA 02139-4307  
Phone: (617) 253-1290  
e-mail: [mnoga@mit.edu](mailto:mnoga@mit.edu)

The GSIS Newsletter is published quarterly, in March, June, September, and December by the Geoscience Information Society. It is now published Open Access and is supported by GSIS memberships (individual or institutional). All correspondence regarding dues, membership status, and address changes should be directed to the GSIS Secretary. GSIS members are encouraged to contribute content for publication. Material for the March issue should be received no later than March 7, 2019. Please send submissions by e-mail to the Newsletter Co-Editors Amanda Bielskas [asb2154@columbia.edu](mailto:asb2154@columbia.edu) or Michael Noga [mnoga@mit.edu](mailto:mnoga@mit.edu).

**(Continued from page 1)**

*1. Increasing Number of FAIR Data Events*

The AGU (2018) made a special effort to promote FAIR (e.g., findable, accessible, interoperable, and reusable) Data Events at their 2018 Conference hosting Data workshops, Town Halls, and even staffing a Help Desk (including a Data Reference Desk) for those with questions. For example, the Town Halls focused on Credit for Data Work, Managing Research Data Outputs and Funder Open Data Expectations, and Sharing Your Software – all common themes at research data focused conferences such as RDAP. As further evidence of the importance of FAIR Data Events, these were also promoted by COPDESS, the Coalition for Publishing Data in the Earth and Space Sciences, and ESIP, the Earth Science Information Providers federation. The trends of increased interest in research data

and in accelerating open publishing are likely to dominate the conversation in geoscience information in 2019. I expect these to be hot topics in the next cycle of geoscience information related conferences as well including the GSA Conference in Phoenix in 2019.

AGU. 2018. Enabling FAIR Data. <https://fallmeeting.agu.org/2018/fair-data-at-fall-meeting-2018>

Cartier, K. 2017. USGS Library Cuts would Harm Research, Education, Say Scientists. *Eos*, 98, <https://doi.org/10.1029/2017EO078127>  
Else, H. 2018. Radical Open-access Plan Could Spell End to Journal Subscriptions. *Nature*, 561, 17-18.

---

**GSIS Meeting Photos By Shaun Hardy**



< Members “catching up” at the annual Business Meeting as Bob Tolliver presides.

Bob Tolliver passes the gavel to incoming president Chris Badurek at the close of the Business Meeting. >



< 2019 GSIS Executive Board: (from left) Stephanie Earls, Chris Badurek, Bridget Thrasher, Bob Tolliver, Michael Noga, Amanda Bielskas, Cynthia Prosser.

Members mingle at the GSIS booth in the exhibit hall. >



Vice Presidents Column:

Report from GSIS Annual Meeting in Indianapolis, November 4 -7, 2018

By Cynthia Prosser

We had a productive meeting this year in Indianapolis with a full schedule of activities and events. Chris Badurek did a wonderful job of planning this year's meeting with good pacing of events across all days. We again partnered with GSA Informatics, joining with them for our traditional Tuesday evening reception. Events started off with our pre-conference session GeoScience 101 followed by the No-Host dinner at the Rathskeller on Saturday evening. This year our Oral Session did not occur because of too few abstract submissions, but we had a robust Poster Session: Geoscience Information Needs in Research and Education with 21 posters covering everything from education projects to technological programs to various information resource uses. Our Vendor update was useful, as per usual, and we heard from the Geological Society, GeoScienceWorld, GeoRef, and the American Geophysical Union. The Professional Issues Roundtable took a different turn this year as it

was a bit more informal than previously. In addition to discussing teaching/encouraging students to use the primary literature, it covered more wide ranging topics, such as student stress in academia and table top games in the library. During the awards luncheon we were once again enjoyed good conversation with our colleagues and honored several of the best new resources in the geosciences. We were able to have two sessions of field trips which enabled us to visit the Indiana State Museum, the Eiteljorg Museum, the Indiana State Library, and the Indianapolis Public Library. These gave us an overview not only of the history and resources in Indiana but also some of the region's unique geology. The GSIS Common Read was repeated again this year and we read *Quakeland* by Kathryn Miles. In the New Year watch for a call for suggestions for next year's Common Read. Also, if you presented a poster this year, watch for the call for the accompanying paper for this year's Proceedings.

**GSIS Meeting Photos By Shaun Hardy**



< The stunning Indianapolis Public Library wowed field trip participants.



(Center) The "cast" of GL101 take a bow at the GSIS Luncheon (from left): Sam Teplitzky, Amanda Bielkas, Linda Zellmer, Emily Wild, Clara McLeod, Mary Ellen Vedas, Stephanie Earls.

(Below) Past recipients of the Ansari Distinguished Service Award (Sharon Tahirkheli, Michael Noga, Linda Zellmer, Shaun Hardy) congratulate this year's winner, Linda Musser.



# Musings

Remember the size of the corridors and exhibit hall at the Indianapolis

Convention Center at

GSA? I went to the AGU Fall Meeting in DC in early December and found the Washington Convention Center to be even bigger. It just went on and on, and there were 27,000 people at the conference. The exhibit halls were very large. The poster sessions were held in a very long exhibition hall. Even though there were thousands of posters, the poster area only filled perhaps a third of the hall. MIT has the Infinite Corridor. I would call this the Infinite Exhibit Hall.

I spent an hour in the hall and saw perhaps a quarter of the posters. They were organized by the AGU Section. I was impressed by the work and am pleased that the Earth and Space Science Open Archive (ESSOAr) will be available to capture conference posters. I skimmed the references of each poster to see what sources were used for the research. Most posters did list citations. I didn't get through all the subject areas, but I did notice that most referred the AGU journals, GSW journals, PEPI, EPSL, and the Geophysical Journal (of the Royal Astronomical Society). One poster cited a lot of online reports. The one problem with the reference lists was the small font size of the citations at the bottom of the posters. The representation of institutions and authors was quite international.

I only got to one talk, the President's Forum with an address by Lisa Jackson, Vice President of Environment, Policy, and Social Initiatives at Apple. She focused on how the private sector

can address Climate Change through environmental action, product design and redesigned manufacturing processes, using Apple's initiatives as an example. She came to Apple from EPA and a background in chemical engineering, so her address was an interesting take on protecting the planet. She used her personal story to show how mentors can bring more unrepresented populations into science.

At the end of the day, I was able to spend time in the exhibit hall. There were so many exhibits that I needed to go through again on another day. A lot of international exhibitors were present, especially universities and research institutes from China. I was not aware of the abundance of research institutes in atmospheric science and oceanography. Many had specific services, instrumentation, and software applications that were promoting to researchers. The NASA exhibit was especially powerful. You could spend much of the day listening to presentations there. An especially popular piece of swag was the oversize NASA 2019 calendar with crisp illustrations to inspire the new planet and space explorers.

The AGU Fall Meeting is supersized. You do need several days to explore it. Though I didn't have time to go to talks, I did go by a communication session that had a big whiteboard for attendees to briefly show their work with a picture and a few words. I think that I saw a frustrated grad student's response in one striking response (droppings).

I did attend the meeting that Shaun Hardy organized with AGU and Wiley at the Convention Center, but I will let others report on that.

## Review: Publons Provides Credit for Peer Review

By Chris A. Badurek

Peer-review publication relies on researchers to review manuscripts to advance discovery in the geosciences. However, for years reviewers have toiled in obscurity and journal editors struggled to find willing and competent reviewers. A relatively new web venture has focused on providing credit to reviewers in a public forum and aid journal editors in connecting with potential journal reviewers. Publons, part of Clarivate Analytics, is an increasingly visible academic research community site where academics can share information on their publications, publishing metrics, and most interestingly their publication review activity.

The image shows a screenshot of a Publons reviewer profile. At the top, there is a navigation bar with 'publons' logo, 'BROWSE', 'COMMUNITY', 'FAQ', and a search icon. Below this, the profile is for 'Mohammad Ali Ahmadi'. It includes a circular profile picture, a 'Top peer reviewer' badge, and affiliation with the 'University of Calgary'. It lists 'ResearcherID: P-9592-2017' and 'ORCID: 0000-0002-8229-334X'. A table displays metrics: PUBLICATIONS (145), TOTAL TIMES CITED (2,808), H-INDEX (35), and VERIFIED REVIEWS (461). On the left, there is a sidebar with 'Summary', 'Metrics', 'Publications', and 'Peer review' options. The main content area shows 'Research Fields' with tags for 'ARTIFICIAL INTELLIGENCE', 'BIG DATA ANALYTICS', 'CARBON SEQUESTRATION', and 'CO2 EOR AND STORAGE'. A button at the bottom says '+ VIEW FULL BIO & INSTITUTIONS'.

**Figure 1. Sample Publons Reviewer Profile in the Geosciences.**

Credit for journal reviews are provided to academics as a Merit Score based on the number of manuscripts reviewed and on how open their reviews are. For

example, the content of the review may be open to the community such that reviewers comments are transparent. Reviewers are also invited to score the quality of a manuscript for others to view. Additional Merit points are provided for these open comments on manuscript. Each reviewer has a Dashboard and Public Profile where their total Merit Score, number of reviews, and journals reviewed for are listed openly (see Figure 1). Researchers can be sorted by Merit Score globally or within institutions to find the most prolific reviewers for each discipline or sub-discipline. Researcher's publications can also be added to their profile through Web of Science and related citation metrics listed, including the frequently used h-index. Publons also links with ORCID and ResearcherID to facilitate creation of researcher metrics.

Publons has primarily had use internationally but is now increasing in the US. Researchers, particularly doctoral students and new faculty members, may be interested to know more about receiving credit for their reviews. Publons also provides a new reviewer academy (Publons Academy) a ten module training which provides basic information on reviewing for novices. Publons Academy also facilitates interaction with a mentor in the field to help guide new reviewers in how to create useful manuscript reviews. Researchers should also be aware that many journal publishers are moving towards integrating with Publons as a means of making the peer-review process faster and more transparent. As a user of Publons, I have found it to be easy to use and an effective platform for sharing your peer review activity. I would recommend sharing information about it with new faculty members starting out in their academic careers or those frequent reviewers looking to move towards journal editorship positions.

Publons  
<http://www.publons.com>

By Samantha Teplitzky

## Background

In just a few short years, learning the programming language, Python, and using it to analyze data within a Jupyter Notebook (<https://jupyter.org/>) have gone from the province of computer science and statistics students to a competency expected of our institution's general student population. This fall, various campus data initiatives solidified into a new Division of Data Science with related Data Science major. Many students experience their introduction to Python and Jupyter Notebooks through the 1000+ student course "Foundations of Data Science" (aka "Data8")<sup>1</sup>, an introductory course with no programming prerequisites. Beyond Data8, so-called "connector" courses have popped up in multiple departments on campus. For those studying Earth Science, Berkeley's Earth & Planetary Science (EPS) Department and related departments have offered several connector courses this year including:

- Python for Earth Science (Earth & Planetary Science)
- Computer Simulations in Earth and Planetary Science (Earth & Planetary Science)
- Terrestrial Hydrology (Geography)
- Exploring Geospatial Data (Environmental Science, Policy & Management)
- Data Sciences in Ecology and the Environment (Environmental Science, Policy & Management)
- Data Science Applications in Geography (Geography)

## Library engagement with Jupyter

As interest in Jupyter notebooks has grown, we have been grappling with how to engage the library in these developments, and I have been searching for ways to serve our Earth Scientists

specifically in this domain. I've started by learning Python myself and looking for ways to apply that knowledge. For example:

- Several librarians within the Library's Engineering & Physical Sciences Division enrolled in the first part of the edX version of Data8 in Spring 2018<sup>2</sup>. Four of us completed the first session of the course which is offered as 3 five week sessions (equivalent to a 15 week semester).
- Even with only weeks of python under my belt, I've tried to put concepts into practice by opting to evaluate spreadsheet data within a Jupyter Notebook instead of Excel.
- Within the realm of Open Educational Resources, I was invited to and was able to be conversant at meetings related to a course whose instructor wanted to switch from a proprietary instruction and homework platform to a Jupyter Notebook.

These are small accomplishments, and it certainly feels like we are in uncharted territory!

## Future possibilities

I am brainstorming ideas for the future and welcome any ideas or potential collaborations!

- *Collections*: Does the explosion of data-oriented work broadly and Python/Jupyter Notebooks specifically warrant any specific collections work?
- *Reference/Consultations*: Although many quick questions are readily google-able, students within the Earth & Planetary Science department have expressed interest in on-site (the EPS Dept shares a building with the Earth Sciences & Map Library) expert drop-in help. Berkeley's Moffitt Undergraduate Library has initiated a

---

<sup>1</sup> <https://data.berkeley.edu/education/courses/data-8>

<sup>2</sup> <https://www.edx.org/course/foundations-data-science-computational-uc-berkeleyx-data8-1x>

program using Data Peer Advising Library Fellows, undergraduates who offer peer-to-peer assistance with Data. I'm not sure how that would scale down to our smaller branch library, but it could be an interesting complement to our flagging reference service.

- *Instruction:* Could we structure hands-on one-shot sessions using Jupyter notebooks?

What would that involve for us, and can we assume that students will be universally savvy with these tools?

Have Python and Jupyter notebooks taken hold at your institution? What Earth Science initiatives are emerging and how is your library responding?

Look forward to continuing the conversation!

## A First-Timer's Experience of the Conference

By Brittany Wofford

---

As the fortunate recipient of the inaugural Geoscience Information Society Travel Grant, I was able to attend both the 130th Annual Meeting of the Geological Society of America and the preconference session Geoscience Librarianship 101. At both the class and the conference sessions I found expert colleagues who were generous with their time and knowledge.

**(Figure: Shaun Hardy presents a certificate of recognition to Brittany Wofford on receiving the 2018 GSIS Travel Grant)**



Geoscience Librarianship 101 was helpful and practical, with presentations on topics including scholarly communications in the geosciences, finding geospatial information, and other crucial issues for our discipline. I've switched subject

responsibilities to work with the Nicholas School of the Environment, which includes Earth & Ocean Sciences and Environmental Sciences & Policy, and these sessions were immediately applicable and led to improvements in my subsequent research consultations and instruction sessions. Having a breakdown of the environmental actors in the US congress was especially helpful when working with master's students in

Environmental Policy, for example, and the information on USGS water software was useful for my work with a hydrology PhD. Many thanks to Clara McLeod and the instructors for sharing their time and expertise! During the conference, the business sessions and vendors provided valuable insight and information on issues facing our community and newly available or forthcoming resources. I also valued the poster session on the subject of "Geoscience Information Needs in Education and Research." Poster topics included citizen science projects, online field guide indexing, and teaching introductory geosciences.

Discussions with the presenters were interesting and rewarding. Especially fruitful was a conversation with the authors of "Scientific Literature Uses in Geography: Indexing and 'Overlap' in Four Bibliography Tools," which led me to create an instruction module for a graduate class around why and when particular databases and tools can be useful in the research process. Many thanks to all the poster authors for sharing their work.

Throughout the conference, Amanda Bielskas was generous with her time and knowledge, serving as a mentor to this first-time attendee and offering her advice on conference matters and ways to get involved with the GSIS. Many thanks to Amanda and to the nominating committee (Shaun Hardy, Amanda Bielskas, and Samantha Teplitzsky) and the Geoscience Information Society for this opportunity



## 2018 GSIS Meeting Highlights Indicate Continued Strong Interest in Geoscience Information

---

By Chris A. Badurek

The 2018 GSIS Meeting was held at GSA 2018 in downtown Indianapolis, Indiana over Saturday, November 3 to Tuesday, November 7. The schedule of events kicked off with a great turnout for the Geoscience Librarianship 101 Workshop held at the beautiful and expansive Indiana University – Purdue University Indianapolis (IUPUI) Library. With over twenty attendees and presentations from a number of experienced geoscience librarians, the workshop was a great success. The day-long workshop was followed by a lively group dinner at the historic German restaurant The Rathskeller in downtown Indianapolis.

The GSIS Business Meeting had attendance from over twenty GSIS members and productive conversation was had on the upcoming year's activities. The strong financial status of the organization was presented followed by discussion of improvements to the GSIS website and continued funding for a GSIS Travel Award to the annual meeting for new members. A plan was put into place to redevelop the GSIS website with input from the GSIS Board, GSIS Members, and two members volunteering to take the lead on the project. At the conclusion of the Business Meeting, the gavel was passed from Bob Tolliver to Chris Badurek as incoming GSIS President. New Board Members Cynthia Prosser (Vice President), Bridget Thrasher (Treasurer), and Stephanie Earls (Secretary) were announced and thanks given to the hard work of outgoing members Sam Teplitzky (Secretary) and Lori Tschirhart (Treasurer). Following the Business Meeting, members visited two nearby museums, the Indiana State Museum, a large natural history and history museum, and the Eiteljorg Museum, an interesting western themed museum that is the largest of its kind east of the Mississippi. The following beautiful crisp morning members visited the historic Indiana State Library and then walked through the Indianapolis Cultural Trail to the recently renovated Indiana Public

Library for a quick tour. After this trek, members were treated to the delightful GSIS Luncheon where the GSIS publication awards were presented, including Best Guidebook, Best Guidebook (Popular), Outstanding Geological Field Trip Guidebook Series, Mary B. Ansari Best Research Resource Work, and Best Paper (to GSIS member Sam Teplitzky). Brittany Wofford of Duke University was also honored with the Inaugural GSIS Travel Award. The GSIS Vendor Update Session followed the Luncheon with updates on developments from Geoscience World, Geological Society of London, and AGI's GeoRef as well as a special presentation on the future directions of AGU from AGU Executive Director Chris McEntee. The following day featured a lively lunch-time conversation on the GSIS Common Read (*Quakeland*) followed by the Professional Issues Roundtable. The Roundtable had twenty members participating and featured issues ranging from publisher perspectives, deselection, collection development, uses of space, and new innovations at geoscience libraries. Later, the GSIS Poster Session *Geoscience Information Needs in Education and Research* organized by Cynthia Prosser and Chris Badurek featured over twenty posters ranging from sharing geoscience data, improving geoscience education, open educational resources, guidebook archive, uses of GIS, and crowdsourcing in citizen science. The day concluded with the jointly sponsored GSIS and Geoinformatics Division of GSA Awards Reception. At the reception PSU Distinguished Librarian and Director of the Fletcher L. Byrom Earth and Mineral Sciences Library Linda Musser was honored by GSIS and presented with the Mary B. Ansari Distinguished Service Award for her many significant contributions to GSIS and to the discipline of geoscience librarianship.

Despite a full active schedule for 2018, many opportunities for informal conversation among members were available between sessions and at

informal lunch and dinners. In addition to the professional development opportunities afforded by access to the GSA Meeting and GSIS Schedule, the networking opportunities are invaluable for new and returning members. I encourage all member to consider joining us at the GSIS Meeting at the 2019 GSA Conference (September 22-25) in sunny Phoenix, AZ. Those who attend the Geoscience 101 Workshop receive a full day of professional development and networking as well as one evening of access to the Exhibit Hall for an exceptionally low cost. Please also consider encouraging new colleagues to participate in the meeting when they can. I am looking forward to another great meeting in Arizona in 2019!

**2018 Conference Travel Award**  
Brittany Wofford, Duke University

**2018 Best Guidebook Award**  
Field guide to the geology of Northeastern Oman. By Gösta Hoffmann, Martin Meschede, Anne Zacke, Mohammed Al Kindi. Stuttgart : Borntraeger Science Publishers, 2016.

**2018 Best Guidebook - Honorable mention**  
Rocks, ridges, and rivers: geological wonders of Banff, Yoho, and Jasper National Parks: a roadside tour guide. by Dale Leckie. Calgary, Alberta: Broken Piplars, 2017.

**2018 Best Guidebook Award (Popular category)**  
Roadside geology of Nevada. by Frank DeCourten and Norma Biggar. Missoula, Montana: Mountain Press Publishing Company, 2017.

**2018 Award for Outstanding Geological Field Trip Guidebook Series**  
New England Intercollegiate Geological Conference

**2018 Best Paper**  
Teplitzky, S., 2017. Open data, [open] access: linking data sharing and article sharing in the Earth Sciences. *Journal of Librarianship and Scholarly Communication*, 5(1) (Photo by Shaun Hardy) >



**2018 Mary B. Ansari Best Research Resource Award Winner**  
Salt Tectonics - Principles and Practice  
Martin P. A. Jackson and Michael R. Hudec (Photo by Shaun Hardy) >



**2018 Mary B. Ansari Distinguished Service Award**  
Linda Musser, Pennsylvania State University (Photo by Shaun Hardy) >



## **Just a Heads Up: If you presented a poster at the 2018 GSIS Annual Meeting, watch for a call for the accompanying paper for the Proceedings.**

Recap of Geoscience Librarianship 101

By Clara McLeod

---

“Geoscience Librarianship 101”, our annual pre-conference, professional development workshop, was held at the Suzzalo Library on Saturday, October 21 from 9 AM to 4 PM in conjunction with the GSIS Annual Meeting in Seattle, Washington. The University of Washington Libraries co-hosted the event. The seminar provided 22 attendees with an overview of geoscience information services and resources, discussing current issues and topics relevant to geoscience librarians. Presenters were Amanda Bielskas (Columbia University), Linda Zellmer (Western Illinois University), Stephanie Earls (Washington Geological Survey), Samantha Teplitzky (University of California, Berkeley), Mary Ellen Vedas (Hess Technical Library), Emily Wild (Princeton) and Linda Zellmer (Western Illinois University). Clara McLeod (Washington University in St. Louis) coordinated the workshop.

New Guidebooks identified by the GSIS Guidebooks Committee

---

Compiled by Linda Musser

1. Ancient Oceans, Orogenic Uplifts, and Glacial Ice. Field guide v. 51. Geological Society of America, 2018.
2. Excursion Guide to the Geomorphology of the Howgill Fells. Adrian Harvey. Dunedin Academic Press, 2017.
3. The Coast-to-Coast Walk: Rocks & Scenery. Barry Butler and John Gunner. 2QT Publishing, 2017.
4. Excursion Guidebook; 125th Annual meeting of the Geological Society of Japan. Nippon Chishitsugaku Gakkai, 2018.
5. Exploring Idaho Geology. Terry S. Maley. Mineral Land Publications, 2018.
6. Field Trip Guidebook / 10th International Symposium on the Cretaceous. 2017.
7. Field Trips for the 14th Biennial Society for Geology Applied to Mineral Deposits (SGA) meeting. Open-File Report 8317. Geological Survey of Canada, 2017.  
[http://ftp.maps.canada.ca/pub/nrcan\\_rncan/publications/ess\\_sst/306/306250/of\\_8317.pdf](http://ftp.maps.canada.ca/pub/nrcan_rncan/publications/ess_sst/306/306250/of_8317.pdf)
8. Footsteps through Time: the Rocks and Landscape of Anglesey Explained. Stewart Campbell et al. Isle of Anglesey County Council, 2017.
9. Geologische Exkursionen in Koln-Klettenberg. Sven von Loga. Gaasterland Verlag, 2017.

10. Geology and Iron Ores of the Menominee Iron Range, Dickinson County, Michigan. Institute on Lake Superior Geology, 2018.
11. Geology at Every Scale: Field Excursions for the 2018 GSA Southeastern Section Meeting in Knoxville, Tennessee. Field guide v. 50. Geological Society of America, 2018.
12. The Geology of Jefferson's Country, a Blue Ridge Traverse across Albemarle County, Virginia. v. 47. Virginia Geology Field Conference, 2017.
13. Geology of the Newcastle Coastline - excursion guide. New South Wales Resources and Energy, 2017. <https://search.geoscience.nsw.gov.au/product/1950>
14. Geology of the South Devon Coast, from the Dorset County boundary to the Brixham Area. John C. W. Cope. Geologists Association, 2017.
15. Georoute Lippe: von Eisensteinen, Dünenfeldern und Mäandern der Lippe -- durch den Norden des GeoPark Ruhrgebiet : der geotouristische Radwanderweg von Ahlen. Regionalverband Ruhr, 2017.
16. Geysers of Yellowstone. T. Scott Bryan. University Press of Colorado, 2018.
17. Granitoid rocks of the Pembine-Wausau Terrane in Northeastern Wisconsin. Institute on Lake Superior Geology 64th annual meeting; field trip guidebook. 2018.
18. Guide to Field Trips for the Association of American State Geologists 109th annual meeting. Missouri Division of Geology and Land Survey, 2017.
19. Guidebook 89, New York State Geological Association, 2017.
20. Herefordshire's Rocks & Scenery: A Geology of the County. John Payne. Loganston Press, 2017.
21. Ice Age Trail Atlas. Ice Age Trail Alliance, 2017.
22. Ice Age Trail Guidebook. 2017-2019 edition. Ice Age Trail Alliance, 2017.
23. Karst Geomorphology and Environmental Geology of the Mammoth Cave Region, South Central Kentucky. American Institute of Professional Geologists, 2017.
24. Neogene of the Paratethyan Region. Hungarian Geological Society, 2017. [http://foldtan.hu/sites/default/files/egyeb\\_konf\\_NCSEE2015\\_ORF%C5%B0\\_2015.pdf](http://foldtan.hu/sites/default/files/egyeb_konf_NCSEE2015_ORF%C5%B0_2015.pdf)
25. New England Intercollegiate Geological Conference, 2018. 14 field trips in/near the Adirondack Mountains. <https://www.castleton.edu/academics/undergraduate-programs/geology/neigc-nysga/digital-trip-guides/>
26. New England Rocks: Historic Geological Wonders. Michael J Vieira and J. North Conway. History Press, 2017.
27. Rockhounding Washington: A Guide to the State's Best Sites. Lars W. Johnson. Falcon, 2018.

28. Rockhounding Wisconsin: A Guide to the State's Best Sites. Robert D. Beard. Falcon, 2018.
29. Seattle Walks: Discovering History and Nature in the City. David B. Williams. University of Washington Press, 2017.
30. SGTSG post-conference field trip guide; the Leeuwin Complex, Western Australia. Record - Geological Survey of Western Australia, 2018
31. Shaping the Sonoma-Mendocino Coast: Exploring the Coastal Geology of Northern California. Thomas Cochrane. River Beach Press, 2017.
32. Temporal, Tectonic, Climatic and Environmental Context of the Triassic-Jurassic Rift System of Eastern North America: Emerging Concepts from the Newark Rift Basin. Field Conference of Pennsylvania Geologists, 2018.

### New DRM-Free Popular Geosciences Reading for the Holidays

Compiled by Kay G. Johnson

---

An increasing number of university presses and other publishers are selling publications without imposing digital rights management (DRM). Once purchased, content may be printed, emailed, saved, copied, pasted, and downloaded without any restrictions. Both EBSCO and ProQuest offer DRM-Free e-books through their respective EBSCOhost and Ebook Central platforms. The summary list below includes popular geoscience guides for those of us who only travel by armchair over the holidays, or who use the holidays to plan future vacations. The list is in no particular order and the summary information may have inaccuracies. Happy Holidays!

Geology of the Ice Age National Scenic Trail, by David M. Mickelson.  
University of Wisconsin Press, 2011, est. \$40.

Great Plains Geology, by R. F. Diffendal, Jr.  
University of Nebraska Press, 2017, est. \$25.

Geology for Dummies, by Alecia M. Spooner.  
John Wiley, 2011, est. \$40.00.

Iceland from the West to the South (Travel Guide), by Wolfgang Fraedrich.  
Springer, 2019, est. \$50.00.

Skye: Landscapes in Stone, by Alan McKirdy.  
Birlinn, 2016, est. \$20.00.

Burren Country: Travels Through an Irish Limestone Landscape, by Paul Clements.  
Collins Press, 2011, est. \$10.00.

Treasure Under the Tundra: Canada's Arctic Diamonds, by L.D. Cross.  
Heritage House Publishing, 2011, \$20.00.

Rockhounding Washington: A Guide to the State's Best Sites, by Lars W. Johnson.

Falcon Guides, 2018, \$60.00.

Rockhounding Wisconsin: A Guide to the State's Best Sites, by Robert D. Beard.  
Falcon Guides, 2018, est. \$60.00.

Lake Huron Rock Picker's Guide, by Bruce Mueller.  
University of Michigan Press, 2010, est. \$35.00.

Lake Michigan Rock Picker's Guide, by Bruce Mueller.  
University of Michigan Press, 2006, est. \$35.00.

Kentucky Agate: State Rock and Mineral Treasure of the Commonwealth, by Roland L. McIntosh.  
University Press of Kentucky, est. \$100.00.

Field Guide to California Rivers, by Tim Palmer.  
University of California Press, 2012, est. \$335.00

Subterranean Twin Cities, by Greg A. Brick.  
University of Minnesota Press, 2009, est. 30.00.

Touring Colorado Hot Springs, 3<sup>rd</sup> ed., by Susan Joy Paul.  
Falcon Press, 2018, est. \$60.00

Lunar Meteoroid Impacts and How to Observe Them.  
Springer, 2010, est. \$40.00,

Florida Fossils, 3<sup>rd</sup> ed., by Robin C. Brown.  
Pineapple Press, 2013, est. \$55.00.

Deep Alberta: Fossil Facts and Dinosaur Digs, by John Acorn.  
University of Alberta Press, 2007, est. \$50.00.

Field Guide to Fossils of Texas, 3<sup>rd</sup> ed., by Charles Finsley.  
Gulf, 1999, est. \$50.00.

Optics in the Air: Observing Optical Phenomena Through Airplane Windows, by Joseph A. Shaw.  
SPIE Press, 2017, est. \$50.00.

GSIS Awards from the 2018 Conference

---



# Geoscience Information Society

Mary B. Ansari

Distinguished Service Award 2018

Presented to

**Linda Musser**

Distinguished Librarian and Head, Earth and Mineral Sciences Library  
Pennsylvania State University  
lrm4@psu.edu



Linda Musser has been a Distinguished Librarian for 10 years, so designated by the Pennsylvania State University! She has worked at Penn State since 1985, first as an Engineering Librarian, and then from 1990, as the Head of the Fletcher L. Byrom Earth & Mineral Sciences Library. She has published numerous articles and books, and has made many more contributions in the form of presentations, refereed abstracts, and in-house, committee, and non-refereed publications. She has been the recipient of several grants for her creative ideas.

Linda has served the Geoscience Information Society in many leadership capacities: Vice President, President, Reviews Editor, and on many committees dealing with publications, preservation, and outstanding geoscience works. Perhaps most significantly, Linda is on the GeoRef Advisory Committee, and has provided exceptional leadership to the Guidebooks Committee.

Besides GSIS, Linda has been active in, and remains a member of, the American Society for Engineering Education and the Atmospheric Science Librarians International. She holds a B.S. in Civil Engineering from the University of Illinois where she was elected to the Engineering Honor Society in 1980. She also received a Distinguished Service award from the ASEE, in 2006, and in the same year was named Outstanding Instructor from GSIS for "Introduction to Geoscience Librarianship". Her M.S. in Library and Information Science is also from the University of Illinois.

**The Distinguished Service Award was established in 2005 through the generous support of Mary B. Ansari and recognizes significant contributions to the field of geoscience information.**



# Geoscience Information Society

## Best Paper Award

### 2018

“Open data, [open] access: linking data sharing and article sharing  
in the Earth Sciences”

by

**Samantha Teplitzky**

Earth and Physical Sciences Librarian, University of California, Berkeley  
steplitz@library.berkeley.edu

Published in *Journal of Librarianship and Scholarly Communication*, 5(1), eP2150, 2017.

**Abstract - INTRODUCTION** The norms of a research community influence practice, and norms of openness and sharing can be shaped to encourage researchers who share in one aspect of their research cycle to share in another. Different sets of mandates have evolved to require that research data be made public, but not necessarily articles resulting from that collected data. In this paper, I ask to what extent publications in the Earth Sciences are more likely to be open access (in all of its definitions) when researchers open their data through the Pangaea repository. **METHODS** Citations from Pangaea data sets were studied to determine the level of open access for each article. **RESULTS** This study finds that the proportion of gold open access articles linked to the repository increased 25% from 2010 to 2015 and 75% of articles were available from multiple open sources. **DISCUSSION** The context for increased preference for gold open access is considered and future work linking researchers’ decisions to open their work to the adoption of open access mandates is proposed.

### *Award Citation*

*“A well-written analysis on a topic of current interest, adding an important addition to the scholarly literature in geoscience information.”*



*Berkeley News photo by Hulda Nelson*

**The Best Paper Award has been presented annually since 1986 and is given to the best paper published in the field of geoscience information during the previous year.**





# Geoscience Information Society

Mary B. Ansari

Best Research Resource Award 2018

## *Salt Tectonics - Principles and Practice*

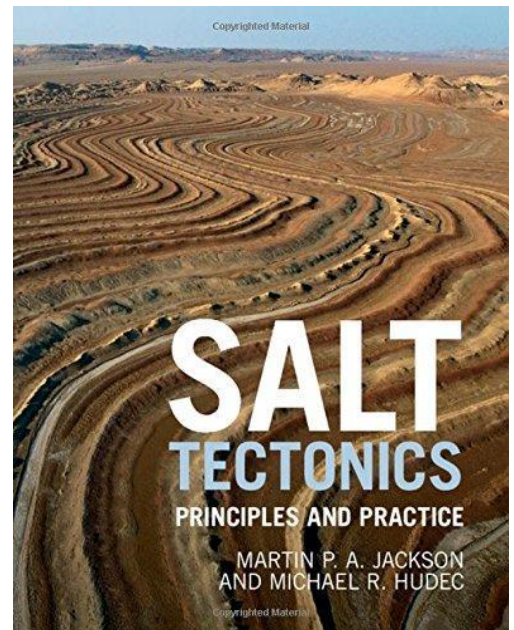
by

Martin P. A. Jackson and Michael R. Hudec  
University of Texas, Austin

Cambridge University Press, Cambridge, 2017

### **About the Winner ...**

Salt tectonics is the study of how and why salt structures evolve and the three-dimensional forms that result. A fascinating branch of geology in itself, salt tectonics is also vitally important to the petroleum industry. Covering the entire scale from the microscopic to the continental, this textbook is an unrivalled consolidation of all topics related to salt tectonics: evaporite deposition and flow, salt structures, salt systems, and practical applications. Coverage of the principles of salt tectonics is supported by more than 600 color illustrations, including 200 seismic images captured by state-of-the-art geophysical techniques and tectonic models from the Applied Geodynamics Laboratory at the University of Texas, Austin. These combine to provide a cohesive and wide-ranging insight into this extremely visual subject. This is the definitive practical handbook for professional geologists and geophysicists in the petroleum industry, an invaluable textbook for graduate students, and a reference textbook for researchers in various geoscience fields.



*- from the Publisher*

**The Mary B. Ansari Best Research Resource Award was established in 1988 and recognizes an outstanding information resource in the geosciences published in the past 3 years.**



# Geoscience Information Society

## Best Guidebook Award

### 2018

### ***Field Guide to the Geology of Northeastern Oman***

by

Gösta Hoffmann, Martin Meschede, Anne Zacke, and Mohammed Al Kindi

Borntraeger Science Publishers, Stuttgart, 2016

#### **About the Winner ...**

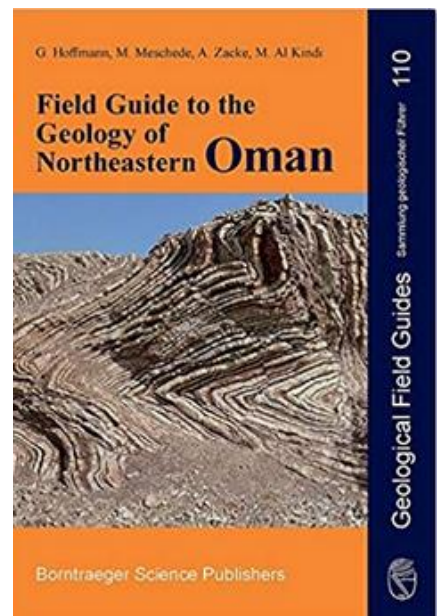
This geological guidebook has two parts: The first provides a general introduction to the geology of Oman, and enables the reader to put the variety of geological phenomena and observations into a scientific context. The authors emphasise describing the processes that led to the formation of Oman's rocks and landscapes formed over millennia of Earth history. Following the introductory chapters on archaeology, climate, and vegetation, the geomorphological and geological aspects of Oman are presented.

The second and largest part of the guide consists of meticulous descriptions of 99 excursion points located across the northeast of the country. The challenge in Oman is to decide where not to stop, rather than the other way round. The authors, therefore, have carefully selected the most interesting and important sites.

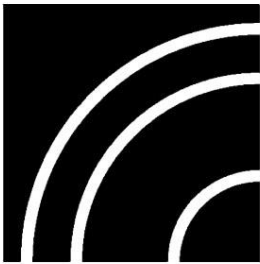
The excursion points can easily be located by their coordinates, or may also be visited using the detailed roadmaps provided for each single outcrop. A large number of colour illustrations, a geological overview map, an index, and a list of references complete the content of the guide.

As the book is written in a textbook style and presents the geology in a comprehensible way, a broad understanding is facilitated. Therefore, this field guide not only addresses geologists but also amateurs, visitors and travellers exploring the beauty and the significance of Oman geology.

*- from the Publisher*



**The Best Guidebook Award recognizes the best geologic field trip guidebook aimed at a professional audience published in the past two years.**



# Geoscience Information Society Best Guidebook – Honorable Mention 2018

## ***Rocks, Ridges, and Rivers: Geological Wonders of Banff, Yoho, and Jasper National Parks: A Roadside Tour Guide***

by  
Dale Leckie

Broken Poplars, Calgary, 2017

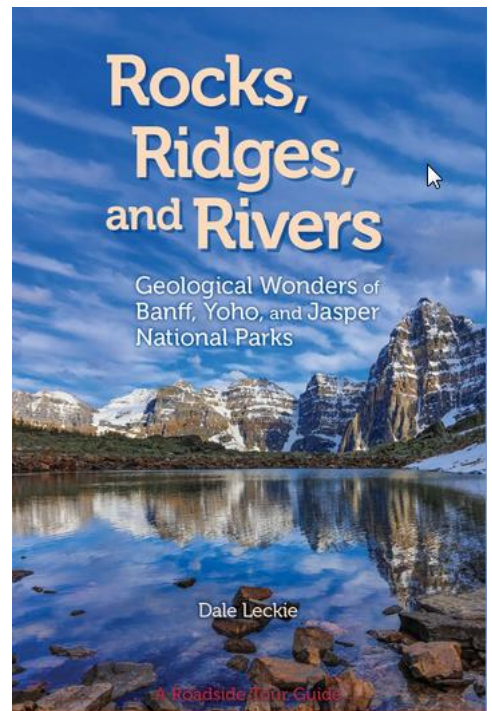
### **About the Winner ...**

Award-winning geologist Dale Leckie guides you through Canada's most amazing UNESCO World Heritage Site – the Canadian Rocky Mountain Parks. In *Rocks, Ridges, and Rivers: Geological Wonders of Banff, Yoho, and Jasper National Parks*, the story of the Rockies, its rivers and valleys, glaciers and hot springs, caves and karst, mountain building and erosion unfolds.

With eye-catching illustrations and photographs, this geology tour guide blends storytelling with science, and natural beauty with easy to understand explanations of the Rocky Mountains.

Another notable feature of the book is its use of creative artwork in the form of many paintings that showcase the work of Heather Pant. Her colourful and at times slightly other-worldly landscapes augment the traditional photos, and are to be admired in their own right. There are many shared possibilities between geologists and artists, as both produce interpretative works that may not be true in scale or realistic in depiction, but which emphasize important things and leave a lasting impression.

*- from the Publisher*



**The Best Guidebook Award (Popular Category) recognizes the best geologic field trip guidebook aimed at a popular audience published in the past two years.**



# Geoscience Information Society Best Guidebook Award 2018 (Popular Category)

## *Roadside Geology of Nevada*

by

Frank DeCourten and Norma Biggar

Mountain Press Publishing Company, Missoula, 2017

### **About the Winner ...**

Driving through Nevada, you may be miles from nowhere, but you are never far from an interesting rock, the shoreline of an ice age lake, or an active or historic mine. The Silver State has some of the most diverse geology in the United States, and much of it lies in plain sight thanks to the arid climate of the Great Basin. Geologic forces continue to shape Nevada, stretching it apart and bringing magma near the surface. Earthquakes periodically rock its lonely outposts, creating some of the biggest fault scarps in the world.

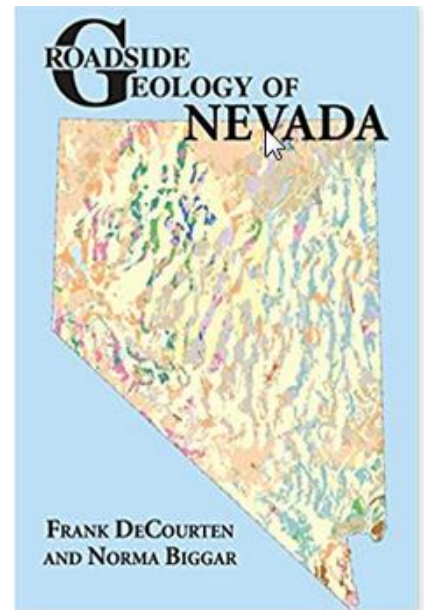
With the help of *Roadside Geology of Nevada*, you can appreciate geologic features along more than thirty of Nevada's highways.

Some of Nevada's Geologic Highlights:

Great Basin National Park's limestone caverns  
Virginia City and the Comstock Lode  
Tule Springs Fossil Beds  
Valley of Fire's bright red rock  
Berlin-Ichthyosaur State Park's fossil reptiles  
Lake Tahoe's granitic eastern shore  
Pyramid Lake's tufa towers  
Ruby Mountains' glacially carved Lamoille Canyon

Red Rock Canyon's Jurassic sandstone  
Alamo's extraterrestrial impact  
Virgin Valley's fossils and opal  
Cathedral Gorge's lakebed badlands  
Frenchman Mountain's Great Unconformity  
Hoover Dam's tough tuff

- from the Publisher



**The Best Guidebook Award (Popular Category) recognizes the best geologic field trip guidebook aimed at a popular audience published in the past two years.**



# Geoscience Information Society Outstanding Guidebook Series Award 2018

Presented to

## New England Intercollegiate Geological Conference

<http://w3.salemstate.edu/~lhanson/NEIGC/>

### About the Winner ...

The New England Intercollegiate Geological Conference (NEIGC) began in 1901 with a field trip led by William Morris Davis to the terraces of the Westfield River in south-central Massachusetts, that was reported in Davis' 1902 paper in *American Journal of Science*. The conference has met annually since that time, with exceptions during World Wars I and II, and a two-year gap during 1913 and 1914. The NEIGC may be the oldest "non-organization" in North America whose sole purpose is to organize and present field trips in areas of recent geologic mapping and topical studies.

The NEIGC welcomes undergraduate students and is particularly aimed at their participation, although field trips are presented to the professional level; consequently, the number of attendees at meetings has increased dramatically. Similarly, the size of the field trip guidebook has increased significantly (two volumes in 1992!), with field trips quite regularly cited in professional publications. The largest number of meetings has been hosted in Massachusetts, followed by Maine, Connecticut, New Hampshire, Vermont, and Rhode Island. The conference has met outside of New England, in New York, Quebec, and New Brunswick. While still the only officer of the nonorganization, the secretary no longer reports the meeting events, but rather ensures a meeting place for future conferences. Nonorganizational rules have been unofficially established and include no dues, evening papers, talks, or lectures. The sole purpose of the NEIGC is, as it has always been, to present field trips in interesting geologic areas.

- from the NEIGC website



**The Outstanding Geologic Field Trip Guidebook Series Award recognizes organizations that have made sustained contributions to guidebook publishing over time.**

<b>Geoscience Information Society 2018 Budget</b>		
<b>Prepared by Bridget Thrasher (last updated 11/20/18)</b>		
	<b>Amount Budgeted</b>	<b>Actual To Date</b>
<b>MEETINGS</b>		
2018 Meeting (rooms, AV, internet, lunches, refreshments, reception, exhibits, abstract fees)	\$ (7,500.00)	\$ (3,257.30)
Field Trip(s)	\$ (300.00)	\$ -
Sponsorship	\$ 5,000.00	\$ 3,250.00
<b>Subtotal</b>	<b>\$ (2,800.00)</b>	<b>\$ (7.30)</b>
<b>DUES</b>		
Membership	\$ 2,000.00	\$ 1,705.00
<b>Subtotal</b>	<b>\$ 2,000.00</b>	<b>\$ 1,705.00</b>
<b>REPRESENTATIVES/APPOINTEES</b>		
Publicity Officer	\$ (50.00)	\$ -
Auditor	\$ (25.00)	\$ -
<b>Subtotal</b>	<b>\$ (75.00)</b>	<b>\$ -</b>
<b>COMMITTEES &amp; SERVICE POSITIONS</b>		
Archivist	\$ (150.00)	\$ -
Best Paper Award Committee	\$ (25.00)	\$ -
Distinguished Service Committee	\$ (25.00)	\$ -
Best Resource Work Committee	\$ (25.00)	\$ -
Exhibits	\$ (50.00)	\$ -
Guidebooks Committee and Subcommittees	\$ (50.00)	\$ -
Membership	\$ (50.00)	\$ -
Nominating	\$ (75.00)	\$ -
Webmaster	\$ (25.00)	\$ -
<b>Subtotal</b>	<b>\$ (450.00)</b>	<b>\$ -</b>
<b>MISCELLANEOUS</b>		

Award certificates, frames, plaques	\$ (175.00)	\$ (364.14)
AGI Member Society Dues	\$ (270.00)	\$ (202.50)
DC.Gov Bi-annual filing fees	\$ (130.00)	\$ -
Geoscience Librarianship 101 (mtg costs and instructor reimbursements)	\$ (2,300.00)	\$ (2,051.20)
Internet Domain Name Services (paid biennially)	\$ (80.00)	\$ -
Bank Charges	\$ (30.00)	\$ -
PayPal fees	\$ (100.00)	\$ (101.01)
Survey Monkey	\$ (204.00)	\$ (252.00)
Postage reimbursements	\$ (75.00)	\$ -
Travel award	\$ (1,500.00)	\$ (1,500.00)
Gifts (unrestricted)	\$ 200.00	\$ 135.00
Interest	\$ 25.00	\$ 22.57
<b>Subtotal</b>	\$ (4,639.00)	\$ (4,313.28)
<b>TOTAL</b>	<b>\$ (5,964.00)</b>	<b>\$ (2,615.58)</b>



GEOSCIENCE  
INFORMATION  
SOCIETY

newsletter

---