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President's Column:

By Linda Musser

The first quarter is primarily a rebuilding period for the GIS and I am pleased to report that our committees and positions are largely filled. We are still seeking a webmaster and a chair for the Best Paper Award Committee but most other committees have been charged and are ready to commence work. The committee rosters are listed in this issue and on the website so please let me know if you were overlooked in my assignments.

The Executive Board met twice this year and will continue to meet approximately monthly as needed. We approved a preliminary budget for the year, also published in this issue, and reduced or consolidated some responsibilities. Representative positions have been reduced to just those essential or required, and I appointed a new Auditor, Sharon Tahirkheli. Emily Wild is continuing as moderator of GEONET and Shaun Hardy is the new GIS Archivist. Publicity duties are now part of the Publicity/Social Media Committee, led by Cynthia Prosser who will also continue leadership of the popular GIS Common Read program.

The membership brochure was updated and hopefully everyone has confirmed their renewal for 2023. Back issues of the GIS Newsletter (1986-2001) are being scanned and will be uploaded to the website later this year. As a reminder, the GIS is a member society of the American Geosciences Institute which entitles members to a variety of benefits such as free access to Nautilus/Earth channel and other benefits outlined here

(<https://www.americangeosciences.org/members/benefits>). Also, as an allied society of the GSA, GIS members are entitled to reduced, i.e., member prices for GSA events.

The Executive Board discussed having several in-person mini-meetings throughout the year in addition to the October meeting to be held in conjunction with the Geological Society of America (GSA) meeting in Pittsburgh. There was insufficient time to plan a gathering for the ACRL Conference or GSA Sectional meetings in March but we are open to hosting a gathering in Chicago prior to the American Library Association meeting in June.

...Continued on page 3

Geoscience Information Society 2022 Officers:

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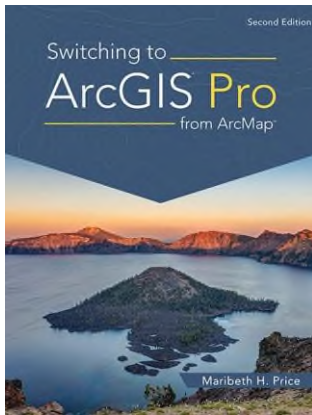


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...President's Column continued

Please let me know if you plan to attend ALA and are interested in a field trip and networking lunch. Similarly, let me know if you plan to attend ACRL, ASEE or AGU later this year as report-outs would be very welcome. Other suggestions for networking events or fieldtrips are welcome as well. I am also exploring the possibility of a joint GSIS/ASLI conference in Baltimore in late January 2024.

Review: Switching to ArcGIS Pro from ArcMap, 2nd Edition. By Chris Badurek



Price, Maribeth H. (2022) **Switching to ArcGIS Pro from ArcMap, 2nd Edition.** Redlands, CA: ESRI Press Academic. ISBN: 9781589487314, 155 pages, \$65.99.

Has anyone asked you about changing their

geographic information systems (GIS) software access from ESRI's ArcMap to ArcGIS Pro? This transition can give even experienced users stress and extended procrastination. ESRI, the leading commercial GIS software vendor is encouraging its customers to make the transition to an enhanced version of the software that has a significantly altered user interface. Daunted by the transition, many students, faculty, and professionals are in need of educational and even emotional support. This recent textbook provides a concise and supportive guide to make the transition as painless as possible.

The book is authored by experienced and well-recognized GIS textbook author Maribeth Price, Professor of Geology at South Dakota School of Mines and Technology. Price has provided effective

GIS textbooks on ArcGIS for many years, and experienced users may take comfort in her take on how to make the transition to ArcGIS Pro. Although Price acknowledges that this short textbook is geared toward experienced users, it also functions as a helpful quick guide to using ArcGIS Pro 2.9 for novices as well. In fact, she suggests experienced users can make substantial progress in just a few days of working through this workbook. The book presents the main GIS mapping tasks that most experienced GIS users would be familiar with and provides summary of changes between ArcMap and ArcGIS Pro for each. Over ten chapters, beginning with a rationale for making the switch and proceeding from learning the user interface redesign, saving projects, symbolizing data, working with tables, creating and editing map layouts, and concluding with editing GIS data. A data set available for download can be used in the brief tutorials found at the end of each chapter.

Overall, I found this to be a helpful resource for quickly learning how to complete the most fundamental mapping tasks with ArcGIS Pro. It is well-written, concise, and effectively helps users build from previous knowledge to learn, and in some cases, re-learn basic mapping tasks. I agree that users can quickly learn the updates over a few days or perhaps even one day of practice. However, as with many GIS tutorial books, users will quickly outgrow the content once they start to acclimate to the new user interface design. I recommend this brief textbook to support faculty, students, and professionals in need of a quick transition guide. Infrequent users of GIS such as field geoscientists and data managers might find this guide particularly helpful. This book may also be helpful for geoscience courses that have some GIS content but not explicitly focused on the topic as data from Crater Lake National Park (National Park Service) are used for the tutorials. I recommend this text as a useful reference source for collections that support undergraduate and graduate programs in geosciences, environmental science, and GIS.

GeoWonders

By Linda Musser

This is a photo of the Kolyvan vase in the Hermitage Museum in St. Petersburg, Russia.

It is a massive piece of green jasper weighing around 19 tons.



Vice President's Column

By Bob Tolliver

We're planning to continue with the GISIS webinars that Linda did throughout 2022 and would like to be able to offer one about every other month or so. Hopefully we can have about four to six throughout the year. I have a couple of potential ideas for initial webinars and would appreciate any input for additional webinars throughout the year. Topics could be meeting reports, research or project reports from members, librarianship matters, or topics from the geosciences. Please let me know if you have any topics that you would like to have covered in one of these webinars. Contact me at: robert.tolliver@ndsu.edu.

This year we are not planning to try to put together a GISIS sponsored technical session at the GSA Annual Meeting. It has been difficult to get sufficient abstracts in the past few years to put on a session and it requires a fair bit of

work on the part of the technical session convener. You can still submit an abstract to GSA and I would encourage anyone to do that if they have something they want to report on at the meeting. It is definitely a worthwhile experience if you have not presented at GSA.

We're planning to have the majority of the GISIS annual meeting remotely and separate from the GSA Annual meeting just as we did last year, but we are also planning to have some form of a get together and a field trip in Pittsburgh, as well. If you would like to join us in Pittsburgh and possibly attend GSA, we look forward to seeing you there. Information on the GSA Annual Meeting can be found at GSA Connects 2023 (<https://community.geosociety.org/gsa2023/home>). I should have more details on our events by the next GISIS newsletter.

Musings

By Michael Noga, MIT Libraries (retired)

So what caught your interest in geoscience?

Was it a college course, a field trip, or perhaps participation in a research project? Was your interest spurred by Nova or another science program? Maybe you went to a lecture.

I got interested first in biology from an assignment to make a poster for the first Earth Day. A field trip on Lake Erie turned my college interest specifically to aquatic ecology.

My interest in geology grew from field trips to glacial environments and a visit to a lake bluff that experienced significant erosion. The only remnant of the former houses were front walks to nowhere.

In geography grad school, my interest in the landscape continued from a walk from the hilltop campus of the University of Cincinnati down to the Ohio River by way of changing geologic and urban environments.

I would characterize these experiences as an exploration in the interaction between urban and natural environments. This interest was reawakened last October on a trip to Sicily. The

first stop was Palermo, a large city on a bay in the Tyrrhenian Sea.

The basin is enclosed by steep mountains and 2,000-foot Monte Pellegrino which separates the city from towns and the airport to the west. The striking location is amazing.

A few days later I went up to the ancient city of Erice, perched on a sheer mountain above the northeast tip of Sicily. The geologic setting was protective against invaders and might help with the summer heat.

I only saw Mt. Etna from a distance, especially from the central Sicilian city of Enna. The city rises to an elevation of 3,054 feet. It seems like an average city plan was dropped on a solitary mountain. Smoke rose from Etna's distant summit.

Travel and field trips keep supporting my interest in the landscape and its origins. On geologic field trips, I sensed an excitement and satisfaction that probably led field trip leaders to their professional choices.

At the end of an MIT undergraduate field trip, one of the professors who led the trip asked me whether spending the day in the field was better than being holed up with books in the library. He actually was a great book collector. I didn't respond, but now I would say that each interest was a spark for explore the other activity.

Reminder: Renew your 2023 membership to the [Geoscience Information Society](#).

Benefits to GSIS membership include:

- Networking with other professionals interested in geoscience information
- Opportunities for presenting and publishing your research at webinars and meetings
- Opportunities for professional service on GSIS committees and task forces
- Discount on Geological Society of American meeting registration and exhibits
- Opportunities to publish in the GSIS Newsletter
- Free access to GEONET discussion list

Movin' & Shakin'

(aka Member news)

Joyce Shaw, Head of Gunter Library at the Gulf Coast Research Laboratory of the University of Southern Mississippi, received the Mississippi Library Association's 2022 Peggy May Award. The Peggy May Award was created to recognize individuals who exemplify outstanding achievement in library development and/or recruitment of personnel to the library field. Congratulations Joyce!

From: <https://myemail.constantcontact.com/The-latest-news-from-Gunter-Library.html?soid=1131583344817&aid=4gWczM3suJl>

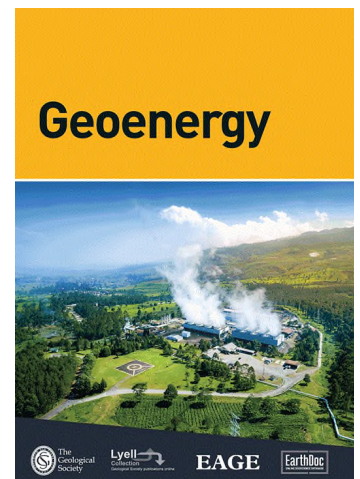
New Member profile:

Hello, and thanks for the warm welcome to GSIS! My name is Zoe Dilles and I am currently in the last semester of my MS in the School of Library and Information Science (SILS) at UNC - Chapel Hill. I am currently on the hunt for a STEM librarianship position, ideally academic or governmental. I grew up in Oregon and went on to graduate from Scripps College where I majored in geology through Pomona College after falling in love with Southern California's mountains. My thesis focused on deep crustal metamorphic petrology and geochronology—lots of U-Pb zircon ages—in the Ruby Mountains-East Humboldt Range metamorphic core complex of northeastern Nevada. My favorite minerals are probably kyanite, almandine, and prehnite. I have a cute dog named Finn who moved from Colorado to North Carolina with me. We both love playing disc golf and hiking (see picture of us in Shenandoah National Park last fall). I also enjoy cooking for my friends, playing the cello, and I am an amateur constitutional law nerd.



New Publications & Journal News:

- *Geoenergy* is a new journal on the GeoScienceWorld platform, co-launched by the Geological Society of London and the European Association of Geoscientists and Engineers.
<https://www.lyellcollection.org/journal/geoenergy/about>
- The *Journal of Geology* is moving to GeoScienceWorld in mid-2023.
- New starts for 2023:
 - *Nature Water*
 - *Discover Geoscience* (Springer)
- Journals that moved to full open access in 2023:
 - *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*



An Overview and History of the GSIS Common Read

By Cynthia Prosser

In the Spring of 2017, the idea surfaced of starting a Common Read at Annual Meeting with the thought of having a casual gathering to chat about a book of mutual interest. I approached Shaun Hardy for his thoughts on this idea. After some email discussions back and forth, we decided that reasonable parameters would be titles related to libraries, to the geosciences, to the region of the meeting location, or a combination of the three. With these ideas in place, the Board was approached and later granted approval for it. Then the planning began.

The GSIS Common Read inaugurated at the 2017 Annual Meeting in Seattle Washington and each Common Read has progressed in a similar manner. Several months before Annual Meeting a call goes out on GeoNet for interesting titles in librarianship, geoscience, the region of the meeting, or a combination of all three. Each year we receive numerous exciting titles in these subject areas. Then the list is culled to five or six representing as wide a variety of interests as possible. This step is always the hardest because there are so many good suggestions. A ballot is created with those books and then posted on GeoNet. All subscribers are encouraged to both suggest titles and vote for a book. After voting closes, the votes are counted, and the book with the most votes is picked and announced on GeoNet. The process is designed to finish up in time for everyone to get and read the book. Although, having finished the book is not a prerequisite to joining the discussion. During Emily Wild's 2nd tenure as President in 2021, she instituted a Monday gathering on Zoom called Geologic Time where GSIS members could gather and chat about what was going on in their libraries and lives. Once a

month, we had Common Read and read several interesting books. Alas, due to the weirdness that was the COVID world at that time, the Geologic Time Common Read petered out after several months.

For the discussion at Annual Meeting, we would pick a lunchtime after one of our sessions to grab some lunch, usually at the convention center, and then find some place to gather, eat our lunches, and discuss the book. It was remarkable how many chairs we could pull up to a table or two to accommodate everyone! Folks would come and go as their schedules permitted and I would like to think that a good time was had by all. Afterwards we moved on to the next things on our schedules. Then COVID happened. With the move to online meetings and the decline of in person attendance at meetings, the Common Read also moved to the online environment. While it was great to meet in person, there are several advantages to meeting by Zoom. More people are able to participate – you no longer need to be at the meeting in a far off locale and it is easier to get your lunch and find a place to sit, although that lunch may not be as appetizing as a lunch at a faraway location.

We are once again planning a Common Read for this year. Please be on the lookout for interesting titles in librarianship, geoscience, the region of the meeting, or a combination of all three. GSA is in Pittsburg this year, which opens up some areas of interesting geology. A call will go out to start the process later in the year. A list of the Common Read books follows.

Common Read Titles:



Annual Meeting 2022 Online & Denver, CO

The Big Ones: How Natural Disasters Have Shaped Us and What We Can Do about Them, Lucy Jones

Annual Meeting 2021 Online



Science Fictions: How Fraud, Bias, Incompetence, and Hype Undermine the Search for Truth, Stuart Ritchie

Geologic Time August 2021



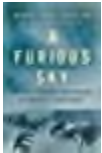
Operation Snowbound: Life Behind the Blizzards of 1949, David W. Mills

Geologic Time July 2021



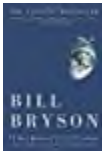
Timefulness: How Thinking Like a Geologist Can Help Save the World, Marcia Bjornerud

Geologic Time June 2021



A Furious Sky: The Five-Hundred-Year History of America's Hurricanes, Eric Jay Dolin

Geologic Time June 2021



A Short History of Nearly Everything, Bill Bryson

Geologic Time May 2021



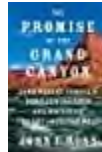
Why Fish Don't Exist: A Story of Loss, Love, and the Hidden Order of Life LuLu Miller

Annual Meeting 2020 Connects Online



Wonderful Life: The Burgess Shale and the Nature of History, Stephen Jay Gould

Annual Meeting 2019 in Phoenix, AZ



The Promise of the Grand Canyon: John Wesley Powell's Perilous Journey and His Vision for the American West, John F. Ross

Annual Meeting 2018 in Indianapolis, IN



Quakeland: On the Road to America's Next Devastating Earthquake, Kathryn Miles

Annual Meeting 2017 in Seattle, WA



Full-Rip 9.0: The Next Big Earthquake in the Pacific Northwest, Sandi Doughton

Member Benefit: Free Geoscience Communication Training

We are delighted to inform you that the American Geosciences Institute, in partnership with the AAPG Foundation, is offering AGI Member Societies **FREE** access to the [Geologize](#) online course “[Practical Geocommunication](#).” As a member of our society, you can take advantage of this free offer immediately.

The course, valued at \$400 per person, provides an excellent opportunity for geoscientists to become more effective and powerful public ambassadors for our field, something that is urgently needed. Given the challenges facing both our field and society more broadly, it has perhaps never been more vital to effectively communicate geoscience to the public and other stakeholders.

HOW TO GET FREE ACCESS TO THE TRAINING

1. Go to the AGI society landing page [here](#).
2. Click on the 'AGI Access' button.
3. Register for the course (Free)
4. Click on the link 'Have a coupon?'
5. Enter the code 'gis-agi-pggz-2324' to remove the price.
6. Start learning!



Please note that the number of uses for this coupon is limited to our membership, so do not share this code with anyone outside our organization.

During the course, you will have access to lessons, quizzes, assignments, and direct interaction with the course instructor, Dr. Haydon Mort, through forums. The training counts as nine hours of Continuing Professional Development, and a certificate is provided upon completion. In addition to becoming a more powerful voice for geoscience, you can gain a valuable professional credential.

The free offer is available for one year, so you are encouraged to take advantage soon!

New Geoscience Open Access Publications & OA News

By Shaun Hardy, Carnegie Institution for Science



Website: <https://zitteliana.pensoft.net>

Zitteliana: An International Journal of Paleontology is published by Pensoft on behalf of the Bavarian State Collection of Paleontology and Geology in Munich. Established in 1961 as *Mitteilungen der Bayerischen Staatssammlung für*

Paläontologie und historische Geologie, the journal transitioned to open access in 2021. It continues to produce an annual print volume, as well. *Zitteliana* publishes original articles, short communications, and reviews in all aspects of paleobiology from “all regions of the Earth and all periods of geologic time.” All content is in English and is published under a CC BY 4.0 license. Thanks to support from the Bavarian Natural History Collections there is currently no charge for authors to publish in the journal.

Website: <https://comptes-rendus.academie-sciences.fr/geoscience/>

Comptes Rendus Géoscience is a peer-reviewed, Diamond OA journal – free to read and free to publish in. Published by the Académie des Sciences in France, *Comptes Rendus* traces its lineage to 1835. Publication in OA mode began in 2020. The journal's scope spans the solid earth sciences, hydrosphere, atmosphere, climate, history of science, and science & society. A number of special thematic issue are published annually. Submissions are accepted in English or French. Authors retain full rights under a CC BY 4.0 license. The time from submission to publication averages 18 weeks.



Website: <https://www.sciencedirect.com/journal/ore-geology-reviews>

Ore Geology Reviews, introduced by Elsevier in 1986, became a fully open access journal in January of last year. The journal covers ore geology in the broadest sense:



economic geology, exploration; mineralogy and petrology; metallogeny; mathematical modeling; laboratory- and field-based studies; etc. etc. *Ore Geology Reviews* aims to publish contributions that fill the niche between typical journal articles and book-length treatments. Special issues and thematic article collections are frequent. Authors may choose between CCBY and CC BY-ND licenses. The Article Publishing

charge is \$2,300.

Regional Geoscience Journals: The following English-language journals focused on regional geoscience research were added recently to the Directory of Open Access Journals.

Acta Carsologica (Karst Research Institute, Slovenian Academy of Sciences and Arts) – <https://ojs.zrc-sazu.si/carsologica/index>

Dizhi lixue xuebao = Journal of Geomechanics (Institute of Geomechanics, Chinese Academy of Geological Sciences) – <https://journal.geomech.ac.cn/> [English abstracts only]

Earthquake Science (KeAi Communications for Seismological Society of China and Institute of Geophysics, China Earthquake Administration) – <https://www.keaipublishing.com/en/journals/earthquake-science/>

Journal of Groundwater Science and Engineering (Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences) – <http://gwse.iheg.org.cn/>

Shuiwen dizhi gongcheng dizhi = Hydrogeology & Engineering Geology (China Institute of Geo-Environment Monitoring) – <https://www.swdzgcdz.com/indexen.htm> [English abstracts only]

Yanguang ceshi = Rock and Mineral Analysis (Science Press for Geological Society of China and National Research Center for Geoanalysis, China) – <http://www.ykcs.ac.cn/indexen.htm>

Call for Nominations for 2023 Guidebook Awards

The Guidebooks Committee of the [Geoscience Information Society](#) (GSIS) is accepting nominations for the 2023 Best Guidebook Award(s) and Outstanding Geologic Field Trip Guidebook Series award. Geologic field trip guidebooks from any region that were produced from 2021-2023 can be considered for the award, which is awarded in the fall at the annual meeting of the Geoscience Information Society. Via these awards, the GSIS seeks to recognize the value of guidebooks and reward examples of excellence. In addition to being outstanding in content, the nominated titles will be evaluated according to the criteria outlined in the [Guidelines for Authors, Editors, and Publishers of Geologic Field Trip Guidebooks](#) published by GSIS. A list of previous winners can be found [online](#). Awards will be given in the following categories:

- Best Guidebook Award(s) - The purpose of these awards is to recognize examples of excellence in geologic field trip guidebooks, with awards in **popular** and **professional** categories.
- Outstanding Geologic Field Trip Guidebook Series award - The purpose of this award is to recognize organizations that have made continued contributions to the geologic field trip genre over time.

Nominations, consisting of the title and bibliographic information (author, publisher, etc.) of the work or series, should be sent to the chair of the [Guidebooks Committee](#). The committee will begin the selection process in July.

Kristen Adams, chair, GSIS Guidebooks Committee
(adamsk3@miamioh.edu; 209 King Library, 151 S. Campus Ave. Oxford, OH 45056)

GSIS Committees 2023

Best Paper Award

Purpose: Determine winner of Best Paper Award

- *Chair vacant*
- Michael Noga (Nov. 2021-Oct. 2023)
- Monica Pereira (Nov. 2021-Oct. 2023)
- Shaun Hardy (2023 – Oct. 2024)
- Jason Coleman (2023-Oct.2024)

Best Research Resource

Purpose: Determine the winner of the Mary B. Ansari Best Research Resource Award

- Chrissy Klenke, Chair (Nov. 2020 – Oct. 2023)
- Amanda Bielskas, (Nov. 2021-Oct. 2023)
- Robert Tolliver, (Nov. 2021-Oct. 2023)
- Ed Lener, (Nov. 2021-Oct. 2023)
- Rusty Kimball, (Nov. 2021-Oct. 2023)

Distinguished Service Award

Purpose: Select the winner of the Mary B. Ansari Distinguished Service Award

- Clara McLeod, Chair (Nov. 2021-Oct. 2023)
- Robert Tolliver, (Nov. 2021-Oct. 2023)
- Marie Dvorzak, (Nov. 2021-Oct. 2023)
- Cynthia Prosser, (Nov. 2021-Oct. 2023)

Guidebooks

Purpose: Identify new guidebooks, maintain and promulgate *Guidelines for Editors* document, and select winners of the two Best Guidebook awards and Outstanding Geologic Field Trip Guidebook Series awards

- Kristen Adams, Chair (November 2022-October 2023)
- Amanda Bielskas, (November 2022-October 2023)
- Michael Noga, (November 2022-October 2023)
- Marie Dvorzak, (Nov. 2021-Oct. 2023)
- Paul Kirk – (Nov. 2022 – Oct. 2024)
- Emily Wild, (November 2022-October 2023)
- Diane Taylor-Harding (2023-Oct.2024)

Membership

Purpose: Review/revise brochure; solicit new members; contact members who have not renewed and welcome back members who renewed late. Lead initiatives to attract international members

- Clara McLeod, Chair (Nov. 2021 – Oct. 2023)
- Monica Pereira, (Nov. 2022- Oct. 2024)
- Jenna Thompson, (Nov. 2022- Oct. 2024)
- Judie Triplehorn, (Nov. 2022- Oct. 2024)
- Emily Wild, (Nov. 2022- Oct. 2024)

Nominating (Chair is always the Past President)

Purpose: Nominate candidates for elective offices; Prepare, mail, and count ballots and report results. For 2023 we are seeking a Treasurer and VP.

- Monica Pereira (chair)
- Linda Musser

Publicity/Social Media

Purpose: Publicize awards and events of the society and its members. Facilitate communications among members. Common Read program is the responsibility of this committee.

- Cynthia Prosser, Chair (Nov. 2022 - Oct. 2024)
- Elise Gowen, (2023 – Oct. 2024)
- April Chen, (2023-Oct. 2024)
- Zoe Dilles, (2023-Oct.2024)



Association of Earth Science Editors 56th Annual Meeting November 1 to 5, 2023 – Austin, Texas

Mark the date! The 56th annual meeting of the Association of Earth Science Editors is set for Austin, Texas, November 1 to 5, 2023. Meeting headquarters will be Homewood Suites by Hilton Austin Downtown, on 78 East Ave. Details are still in the planning stage but will be posted on AESE's website (www.aese.org) as they become available. The meeting is open to anyone and offers two days of technical sessions, a day-long field trip, and numerous opportunities to network with other editors, publishers, science communicators, educators and earth-sciences professionals. Please contact meeting organizers at AESEAustinMeeting@gmail.com if you would like more information about the meeting.



GSIS Committee Report – Winter Issue

Atmospheric Science Librarians International (ASLI)

It was a busy month for ASLI! We hosted our 26th Annual Conference in conjunction with the 103rd Annual Meeting of the American Meteorological Society. The whole meeting was held in hybrid format on 8 Jan – 13 Jan 2023, with the in-person conference occurring in Denver, CO.

ASLI held 4 non-joint sessions on various aspects of librarianship, and we heard from 12 great speakers on what they are doing in their libraries, database updates, and new tools and perspectives. ASLI also held 4 joint sessions with the 39th Conference on Environmental Information Processing Technologies, covering topics in librarianship, FAIR and Open Data, and Environmental Data Access.

ASLI participated in the annual Career Fair, where we interacted with over 100 students and professionals about who we are as a profession.

We hosted our annual Choice Book Awards. Here are the 2022 winners:

- History
 - 1st Place
 - Title- [Following the Mississippian Spread: Climate Change and Migration in the Eastern US \(ca. 1000-1600\).](#)
 - Editors- Robert A Cook and Aaron R Comstock.
 - Publisher- Springer Chem.
 - 2nd Place
 - Title- [Joint Arctic Weather Stations: Science and Sovereignty in the High Arctic, 1946-1972.](#)
 - Authors- Daniel Heidt and P Whitney Lackenbauer.
 - Publisher- University of Calgary Press.
 - Note- Available Open Access.
 - Honorable Mention
 - Title- [Atmospheric Chemistry: A critical voyage through the history.](#)
 - Author- Detlev Moller.
 - Publisher- De Gruyter.
- Popular
 - 1st Place
 - Title- [Looking Up: The True Adventures of a Storm-Chasing Weather Nerd.](#)
 - Author- Matthew Cappucci.
 - Publisher- Pegasus Books.
 - 2nd Place
 - Title- [Hurricane Sandy on New Jersey's Forgotten Shore.](#)
 - Author- Abigail Perkiss.
 - Publisher- Cornell University Press.
- Interdisciplinary
 - 1st Place

- Title- [Severe Weather Warnings: An Interdisciplinary Approach.](#)
 - Authors- William Donner, Havidan Rodriguez, Jerald Brotzge, and Walter R Diaz.
 - Publisher- Springer Chem.
 - Honorable Mention
 - Title- [Climatic Media: Transpacific Experiments in Atmospheric Control.](#)
 - Author- Yuriko Furuhashi.
 - Publisher- Duke University Press.
- Science & Technology
 - 1st Place
 - Title- [Satellite Measurements of Clouds and Precipitation: Theoretical Basis.](#)
 - Author- Hirohiko Masunaga.
 - Publisher- Springer Singapore.
 - 2nd Place
 - Title- [Lightning Discharges: Formation, Terminologies, Measurements, and Theory.](#)
 - Authors- Pitri Bhakta Adhikari and Aashutosh Adhikari.
 - Publisher- Springer Singapore.
 - Honorable Mention
 - [Title- Snow Crystals: A Case Study in Spontaneous Structure Formation.](#)
 - Author- Kenneth G Libbrecht.
 - Publisher- Princeton University Press.
 - Honorable Mention
 - [Title- Natural and Artificial Ball Lightning in the Earth's Atmosphere.](#)
 - Author- Vladimir L Bychkov.
 - Publisher- Springer Cham.

Joyce Shaw (Univ of Southern Mississippi) stepped down as ASLI Chair and into the role of Past Chair. Ashley Orehek-Rossi (Western Kentucky Univ) stepped up from Vice-Chair into the role of ASLI Chair. She will also chair the 27th Annual Conference in 2024.

ASLI cordially invites GSIS members to save the date for ASLI's 27th Annual Conference, held in conjunction with the 104th Annual Meeting of the American Meteorological Society. **The meeting will be held 28 Jan – 1 Feb 2024 in Baltimore, MD.** Please look out for session topic submissions and calls for abstracts later this year!

Changing the Narrative About the Geosciences: Connecting Research to the United Nations Sustainable Development Goals

By Phoebe McMellon, CEO GeoScienceWorld

Note: The results of this project were originally presented at the Geological Society of America Connect 2022 conference and has been adapted for the GSIS Newsletter.

Introduction and Background

From a lack of educational requirements and standards, to close association with extractive industries in which employment opportunities are associated with boom-and-bust-cycles, to a decline in research and funding, the geosciences are faced with significant challenges in terms of perception. Particularly, younger generations often see fields such as biochem, biotech, nanoscience, material sciences and the computer sciences as more attractive fields of study than the geosciences. According to several reports and studies conducted by the American Geosciences Institute and others over the past decade, the geosciences is perceived as less prestigious, lacking in technical difficulty, and less lucrative relative to other physical and biological science professions and industries (Figure 1).

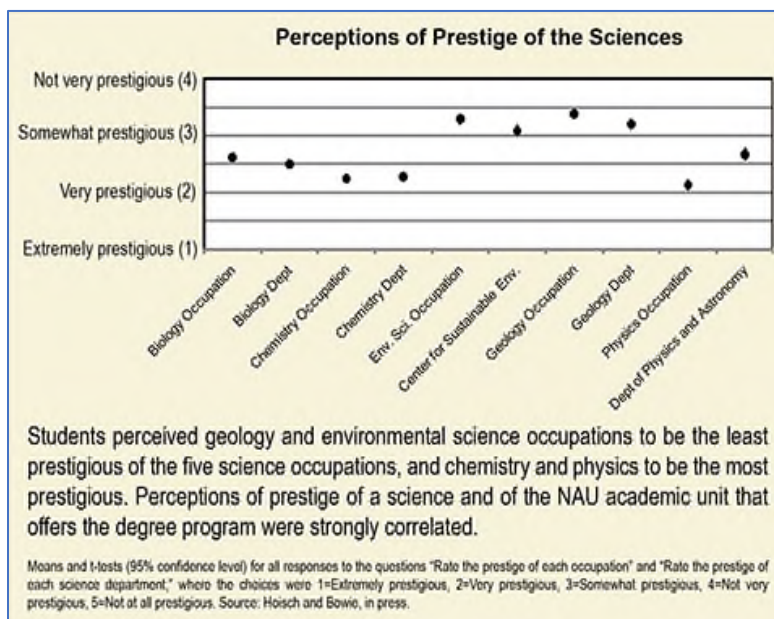


Figure 1. Perceptions of Prestige of the Sciences (Hoisch, 2010).

Analysis published by the American Geosciences Institute indicates that 2019/20 undergraduate and graduate enrollment dropped by 10% and 27%, respectively. More detailed analysis showed that in geoscience graduate programs enrollment in master's degree programs dropped by 23% and enrollment in doctoral programs dropped by 29% (AGI Currents, 2021). These trends are concerning on multiple levels and it is critical for the geosciences community - societies, academic departments (faculty, researchers and students), corporate professionals and librarians and information managers - to work together to change the narrative and to raise

awareness of the many ways (direct and indirect) in which the geosciences contributes and benefits the global community.

Since the development of the UN Sustainable Development Goals in 2015, many geoscience organizations have demonstrated the qualitative contributions of geoscience research and specific subdisciplines support the advancement of the United Nations (UN) Sustainable Development Goals (SDGs). Given the employment and enrollment trends and following on the work of other organizations that have mapped out the qualitative contribution on the UN SDGs, GeoScienceWorld undertook a project in attempt to quantify the contribution and impact of geoscience research on the goals.

GSW SDG Mapping Project – Methods and Results

GeoScienceWorld (GSW) is a nonprofit collaborative, found in 2004, by seven of the leading geoscience societies with the goal of bringing high quality, peer-reviewed society publications together online in a single platform. As a nonprofit, our mission is to strengthen the long-term sustainability and viability of society publishers in the earth and planetary sciences and deliver knowledge and insights to the research community via the GeoScienceWorld platform at affordable price.

Today, our platform supports over 35 society publishers and 50+ journals, delivering over 205,000 articles covering 12 major subject areas and 78 subdisciplines to academic and corporate institutions in over 49 different countries. As a nonprofit, GSW has returned over \$53M in royalties back to the societies so that they can successfully achieve their missions and support their communities. It was the content on the GSW platform that inspired us to see if we can leverage the individual research articles to map to the SDGs to try and quantify the impact of the research being produced.

Using SciVal¹, a research performance analytics tool that reports on emerging trends and the impact of thousands of research institutions and associated researchers, GSW was able to analyze a total of 38,000 articles published from 2012-21 from 49 journals to the UN Sustainable Development Goals.²

Total articles evaluated



¹ About SciVal Sustainable Development Goal Data - SDG metadata was originally developed in collaboration with The Times Higher Education University Rankings to track and demonstrate institutional research output and progress toward the SDG targets. SDG metadata only includes 16 of the 17 SDGs due to complexity in defining and quantifying SDG 17 accurately. SDG results only include publications that use search query keywords which are matched by machine learning (thus not perfect and can miss publications). More than one SDG can be attributed/tagged to a publication, but no more than four.

² Note that 3 (Bulletin of Canadian Geology, The Seismic Record, SEG Discovery) of 53 GSW journals could not be included in this analysis because they are not indexed in Scopus. SciVal leverages the metadata generated from Scopus.

Figure 2. Total articles included in the GSW SDG Mapping Project.

SDG data from SciVal was exported and evaluated for each individual journal and for the entire corpus of research aggregated under the GSW platform.

Figure 3 shows the results for three journals: *Geology*, published by the Geological Society of America, *The Leading Edge*, published by the Society of Exploration Geophysicists and *Lithosphere*, published by GeoScienceWorld. For the journal *Geology*, the results show that 20% of articles published between 2012-21 map to 13 SDGs. For *The Leading Edge*, 15% of the articles published between 2012-21 map to 15 SDGs and for *Lithosphere*, 14% of content published between 2012-21 maps to nine SDGs.

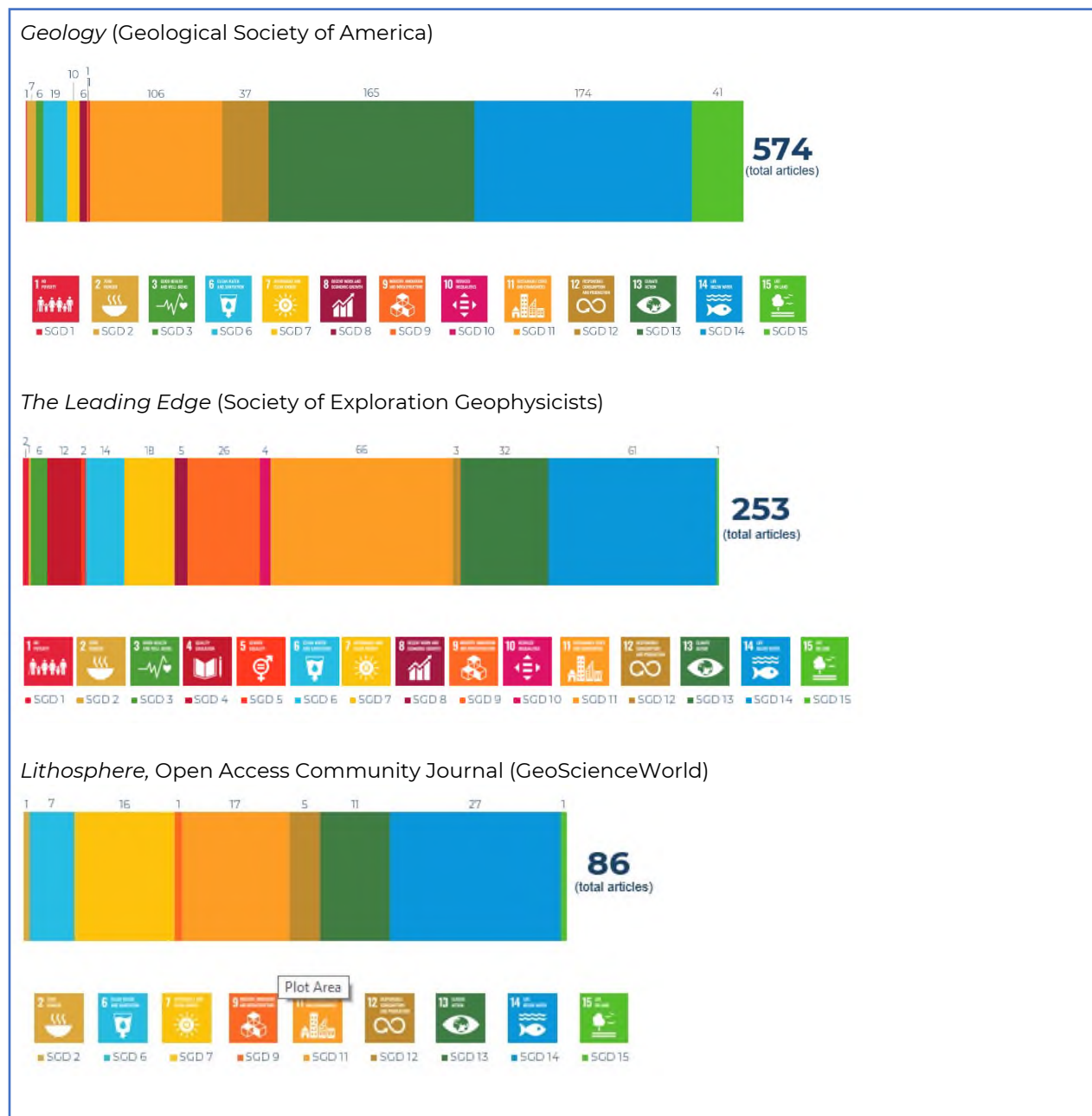
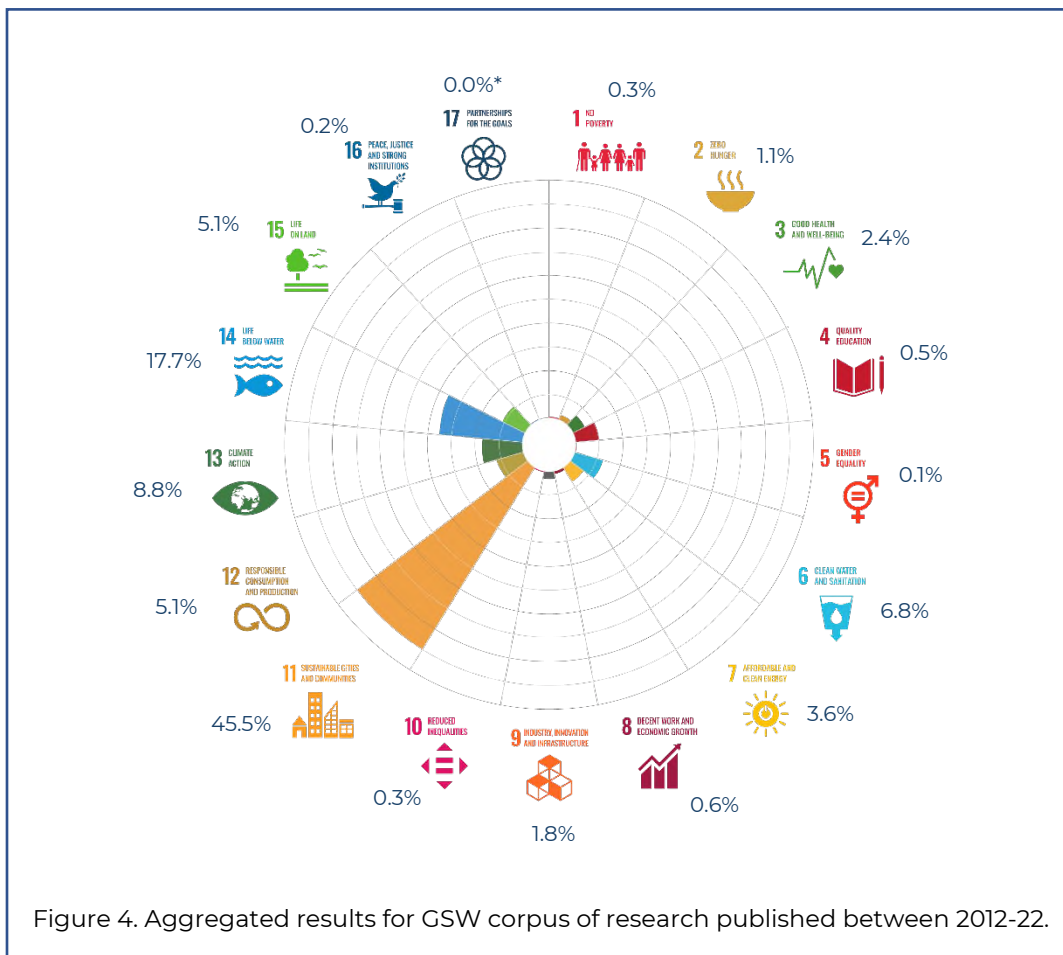


Figure 3. SDG analysis for three journals (*Geology*, *The Leading Edge* and *Lithosphere*). The total article number in each bar graph indicates the total number of articles published between 2012-21 that the research contributes to a United Nations Sustainable Development Goal.

When looking at the aggregated results the GSW journals, 22% of 38K articles mapped to 16 SDGs³ as shown in Figure 4, with the largest contribution being on Sustainable Cities and Communities (SDG 11), followed by Life Below Water (SDG 14), Climate Action (SDG 13), Clean Water and Sanitation (SDG 6), Life on Land (SDG 15) and Responsible Consumption and Production (SDG 12).



Conclusion

The GSW SDG Mapping Project is important because it outlines a simple methodology to quantify the impact of geoscience research on society as measured by contribution to the UN Sustainable Development Goals.

Future work includes expanding the number of journals included in the analysis (i.e., all earth science pubs) to further quantify the impact, comparing the results to identify

³ Note data for SDG 17 data is not currently available in SciVal.

trends within subdisciplines (e.g., hydrology, seismology) and comparing geoscience results with other sciences, e.g., chemistry, physics and biology.

In addition, we will continue to share the data and results with our society partners and the larger community to influence and change the narrative so that we can reverse some of the trends we see in enrollment and inspire the next generation of geoscientists to use their work and research further our efforts to eradicate global poverty, promote social equality and economic stability for all.

Connecting the geosciences to the UN SDGs, both qualitatively and quantitatively, is critical for changing perceptions and inspiring the next generation of geoscientists. We need to accelerate our communications and align like-minded organizations across the globe to be persistent in communicating this connection to the younger generations as well as to the politicians and governments that fund scientific research.

References

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Draft: Geoscience Information Society 2023 Budget					
Prepared by Kelly Grove (last updated 02/16/2023)					
				Savings	
	Amount Budgeted	Actual To Date			
MEETINGS				Checking	\$10,156.45
GSA Pittsburg 2023 (rooms, AV, internet, lunches, refreshments, reception, exhibits, abstract fees)	\$ (7,500.00)			Regular savings	\$40,170.45
ALA mini meeting Chicago	\$ (1,000.00)			Ansari - Service	\$3,562.16
GSIS & ASLI - Jan 2024	\$ (1,000.00)			Ansari - resource	\$4,863.95
Field trip(s)	\$ -	\$ -		Pay Pal	\$4,940.04
Sponsorship	\$ 2,000.00	\$ -			
Subtotal	\$ (7,500.00)	\$ -			
Membership					
Dues & unrestricted gifts	\$ 1,175.00				
PayPal fees	\$ (100.00)				
Subtotal	\$ 1,075.00	\$ -			
Internet Domain Name Services & website hosting					
Blue Host: Domain Privacy + Protection - due Feb 2024	\$ (15.00)	\$ (15.00)			
Blue Host: Domain Name Registration - Due Feb 2024	\$ (19.99)	\$ (19.99)			
Blue Host: Sitelock Security - Due Jan 2024	\$ (83.88)				
Blue Host: Plus - Due Jan 2026 \$503.64	\$ -				
Blue Host: Codeguard Basic - Due Jan 2026 \$143.64	\$ -				
Subtotal	\$ (118.87)	\$ (34.99)			
MISCELLANEOUS					

Ansari Awards, Award certificates, frames, plaques	\$ (1,175.00)				
AGI Member Society dues - Due in October	\$ (270.00)				
DC.Gov Bi-annual filing fees - Due April 2023	\$ (130.00)				
Bank charges	\$ (30.00)	\$ -			
Postage reimbursements	\$ (75.00)				
Interest	\$ 10.00				
Common Read					
Committee Expenses					
Subtotal	\$ (1,670.00)	\$ -			
TOTAL	\$ (8,213.87)	\$ -			