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THE MUCKREADER

Letter from the Editor

Dear Limnogeologists,

How are you? Are you doing well? I hope you are. If you are not, hang in there spring is on the way. Winter's icy grip is lessening, robin's have returned to my yard, daffodils are blooming, I heard spring peepers for the first time a couple weeks ago, and the sun is shining for more of the day, there is hope! For many limnogeologists spring and summer mean a return to the field, new samples to collect, and new data to retrieve. What a fun time!

Question? Are you or do you know an undergrad or graduate student who could use \$1500 towards research and whose work is limnogeology related? If so you should apply or encourage your students to apply for the 2022 Kerry Kelts Research Award! As far as applications go this is fairly manageable in length, see page 3 for full the details. If you are interested to see where some of the past recipient of the Kerry Kelts awards recipients are know and what wisdom they might impart check out page 7.

Give the News, Events, and Opportunities section a once over to learn about and potentially participate in a STEM study, find FREE webinars, and learn about a conference you might wish to attend! Have something you need advertised to the limnogeology community? Looking for collaborators? Looking to borrow field equipment? Let us know (email shilling.andrea@gmail.com) and we can help you reach your target audience by including it in the fall edition of the Muckreader.

The Limnogeology Division Management board welcomed Dr. Kirsten Menking to our ranks as acting vice chair. We are all very excited to welcome her and to work with her moving forward. Flip to page 5 to learn all bout Dr. Menking's career and to read her personal statement. Dr. Menking will also be running this summer for the position of vice chair, so be sure to look out for that election this summer!

Lastly, and this section is probably geared mostly for the more social media inclined members, while doom scrolling TikTok this past winter I collected a list of some geologically and limnologically focused accounts. If you wish your FYP to have more #rocktok accounts head over to page 9 and enjoy!

I hope everyone has a productive end of term and that field seasons are full of exciting data collection,

Andrea Shilling, *Limnogeology Division Secretary & Muckreader Editor*, shilling.andrea@gmail.com

Message from the Chair

March, 2nd 2022



While there is much that could be said about current global events, this message will focus on the many positive things. The Limnogeology Division is delighted to welcome our acting vice-chair, **Kirsten Menking** of Vassar College. You may recognize her name as one of the authors of the widely used and very well-regarded textbook “Environmental Geology: An Earth System Science Approach”. Kirsten is a highly respected teacher-scientist who brings enthusiasm to the management board of the division. She will serve in the acting vice-chair capacity through GSA Connects in October 2022, but is also nominated in the next election for vice-chair. Kirsten’s biography is included in this newsletter; please look for the electronic ballot over the summer.

We are also optimistic that GSA Connects 2022 will occur with in-person attendance and a general atmosphere comparable to that of pre-COVID GSA Meetings. Past Limnogeology Division Chair, **Scott Starratt**, and I are chairing a session entitled “Lakes Past, Present, and Future—Archives of Climate Variability, Paleoenvironment, Geohazards, and Economic Resources” with the following description:

“Lakes contain important historical records as their sediments are archives of climate change, local human impact, tectonic and volcanic activity, coastal processes, and ecological succession. This session explores terrestrial and extraterrestrial lacustrine research.”

Please consider submitting an abstract to this session, submission by undergraduate students is also encouraged. We have also had acceptance of Limnogeology Division endorsement by 18 other topical sessions. Other activities to which to look ahead at GSA Connects in October include:

1. The Limnogeology Division Awards Ceremony and Reception: Not only will recipients of the Kerry Kelts and Israel C. Russell Awards be recognized for their achievements in limnogeology, but this will be an opportunity to meet and socialize with other scientists who share an interest in lakes. Significant efforts will be made to improve recognition and identification of the Limnogeology Division members attending, so no need to worry about being lost in the crowd. Please also encourage other division members you may know to attend. Who knows, maybe your next big collaboration will start at the awards reception!

2. Advanced Graduate Student/Early Career Discussion Group: If you are in the final stages of a Ph.D. program or just beginning your post-doctoral career, consider attending this discussion group. The topics addressed will be determined by those who participate; feel free to join the discussion and see what you can glean.

3. Mid-Career Discussion Group: Mid-career scientists may struggle with issues that include, but are not limited to: professional stagnation, burnout, budget cuts, elimination of programs, changes

“We are also optimistic that GSA Connects 2022 will occur with in-person attendance and a general atmosphere comparable to that of pre-COVID GSA Meetings”

in organizational/institutional models or restructuring, and loss of job and/or changing careers. The topics addressed will be determined by those who participate. Whether you may benefit from the insight of other mid-career scientists, or have thoughts and experiences to share, feel free to join the group.

As a member, if you have any comments or suggestions for the Limnogeology Division management board, please do not hesitate to reach out. The management board is comprised of individuals at all career stages, so hopefully you can find someone with whom you have common circumstances. The management board consists of the following individuals:

Chair: Jason Price, japrice1@wsc.edu

Vice-Chair: Kirsten Menking, kimenking@vassar.edu

Secretary: Andrea Shilling, shilling.andrea@gmail.com

Treasurer: David Finkelstein, finkelstein@hws.edu

Past Chair: Lisa Park Boush, lisa.park_boush@uconn.edu

Graduate Student Representative: Elena Robakiewicz, elena.robakiewicz@uconn.edu

Undergraduate Student Representative: Mackenzie Eskey, maeske01@wsc.edu

Respectfully submitted,

Jason R. Price, *Limnogeology Division Chair, Wayne State College*, japrice1@wsc.edu

Call for Applicants: 2022 Kerry Kelts Research Award

This award is for undergraduate or graduate student research and is named in honor of Kerry Kelts, a visionary limnogeologist and inspiring teacher.

This year, **one award of \$1,500 for research related to limnogeology, limnology, or paleolimnology** is available.

The 2022 application period for the Kerry Kelts Research Award of the GSA Limnogeology Division is open until **June 30 2022**.

Prepare your application as a PDF titled: "Kelts Award application [Your Last Name]"

★ Send applications to Division Chair Jason Price (japrice1@wsc.edu)

The application consists of:

- **5 page research summary** with description of the proposed research including:
 - title
 - limnogeological significance
 - why the award funds are needed for the project
 - brief description of other funding sources
 - 5 page max includes figures and captions; *list of references not included in page limit
- **Short CV** (two pages maximum).

News, Events, & Opportunities

RADFORD UNIVERSITY
Department of Psychology

Research Opportunity!


You are invited to participate in a research study titled "Impostor Feelings and Career Outcomes among STEM Women: The Roles of Encouragement and Research Self-Efficacy." The purpose of this research study is to better understand the associations between impostor phenomenon, encouragement, research self-efficacy, interest in research, and expectations for a career in STEM.

You are eligible to participate in the study if you:

- Identify as a woman
- Are 18 years or older
- Are currently enrolled in a doctoral program in a math-intensive STEM field (e.g., mathematics, engineering, computer science, or physical sciences)
- Work with an advisor

Those who complete the survey can enter a raffle to win one of five \$20 gift cards!

If you would like to participate, please click this link to access the survey:
https://radford.co1.qualtrics.com/jfe/form/SV_cM9X1eUEc2YnWGW
or scan the QR code:



If you have any questions about the survey, please contact Caitlyn Thelen, M.S. at cthelen@radford.edu.

Free Webinars - May 9th 2022

Amiable Consulting is offering two free webinars on May 9, 2022, one on NSF CAREER proposals and one on NSF Postdoctoral Fellowship proposals. Both will focus on the **Broader Impacts** criterion, with additional information on **Evaluation (including self-evaluation!)** in the CAREER webinar. They'll be content-specific for Earth scientists (NSF GEO directorate and EAR [Earth sciences] division), but should be useful to others as well. If you know anyone who might benefit from one of these webinars feel free to pass this message along.

The CAREER application deadline is July 25 this year, and the EAR Postdoc deadline is October 26. So these webinars provide plenty of information well

in advance of application deadlines and as you know, it's never too early to dig in!

★ Amiable's 2022 NSF CAREER Broader Impacts and Evaluation webinar and Q&A

- ▶ Monday, May 9, 2022, 1-2 PM CDT, Zoom
- ▶ To register [click here](#) or scan QR code



★ Amiable's 2022 NSF EAR Postdoctoral Fellowship Broader Impacts webinar and Q&A

- ▶ Monday, May 9, 2022, 3-4 PM CDT, Zoom
- ▶ To register [click here](#) or scan QR code



American Quaternary Association 27th Biennial Meeting - June 7-11



Location: The Pyle Center, University of Wisconsin-Madison, Madison, Wisconsin

Important Dates:

- ◆ Abstract and Registration Opens: 3/21/22
- ◆ Abstract deadline: 5/2/22
- ◆ Early Registration deadline: 5/2/22
- ◆ Workshop and Find Trip deadline: 5/2/22
- ◆ Student Travel Grant notification: 5/9/22
- ◆ Final Registration deadline: 5/23/22
- ◆ Pre-meeting workshops/field trips: 6/7/22
- ◆ Post-meeting field trips: 6/11/22



For more information scan QR code or go to: <https://sites.google.com/wisc.edu/amqua2022-madison/home>

Spotlight on: Dr. Kirsten Menking

New to the Limnogeology Division management board is Kirsten Menking, our current acting vice chair, who is running for the vice chair position this summer. Let's take a moment to get to know her.

Education:

- * A.B. Geology, Occidental College
- * Ph.D. Earth Science, University of California, Santa Cruz.

Professional Experience:

- * Visiting Assistant Professor, Franklin and Marshall College, 1995-1996



- * Post-doctoral Researcher, University of New Mexico, 1997-2000
- * Assistant Professor of Geology, Vassar College Department of Geology and Geography, 1997-2004



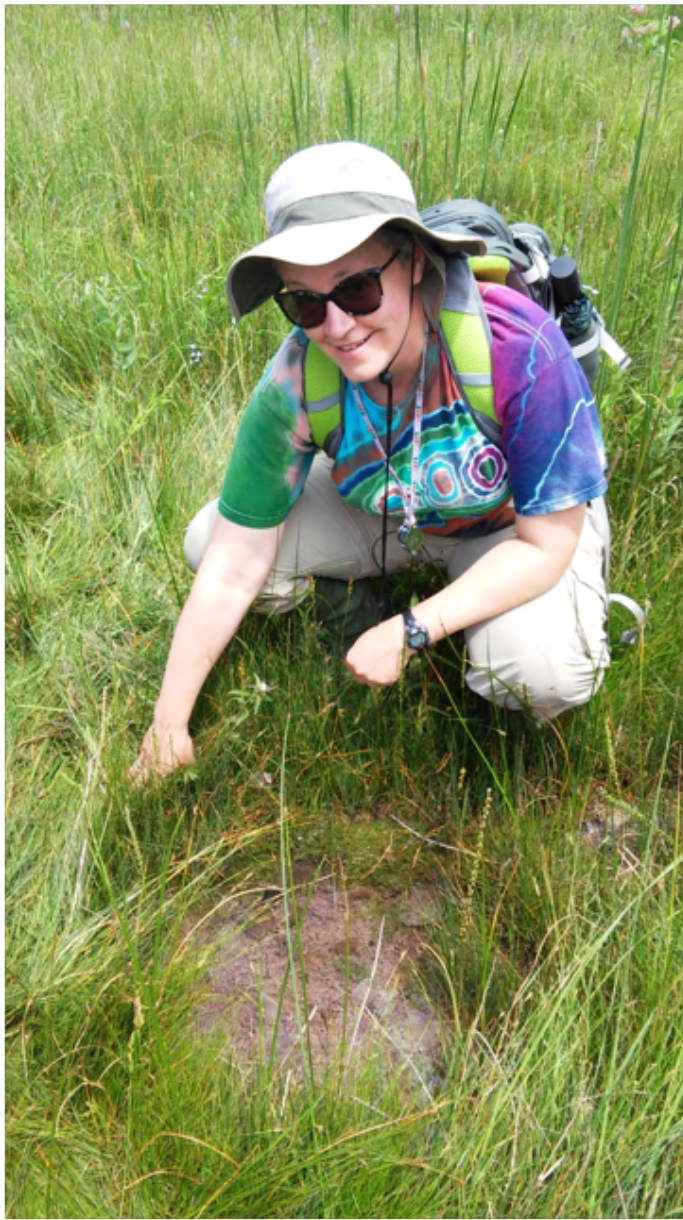
- * Associate Professor of Earth Science, Vassar College Department of Earth Science and Geography, 2004-2015
- * Professor of Earth Science on the Althea Ward Clark Chair, Vassar College Department of Earth Science and Geography, 2015-present

Professional Service:

- * Workshop Presenter, Project Kaleidoscope Geosciences Education Workshop, Franklin and Marshall College, 1996
- * Technical Session Co-Chair, AGU Annual Meeting, 2000
- * Council on Undergraduate Research Geology Councilor, 2000-2006
- * Educational Session Convener, AGU, 2003
- * Technical Session Convener, GSA Northeastern Sectional Meeting, 2004
- * Technical Session Convener, GSA Annual Meeting, 2006
- * Field-trip Leader, New York State Geological Association Annual Meeting, 2009;
- * Workshop Organizer and Presenter, On the Cutting Edge: Professional Development for Geoscience Faculty Workshop Series, 2010
- * Introductory Environmental Geology textbook author, 1997, 2014
- * Modeling Earth Systems on-line course creator, SERC InTeGrate Program, 2017

Research interests: Pleistocene and Holocene climate history of the American Southwest and New York/New England as recorded in lacustrine

sediments; nature and causes of decadal, centennial, and millennial-scale climatic oscillations; paleodroughts; integration of watershed modeling with proxy data to explore past hydrological balance scenarios.



Personal Statement:

"I have been enchanted with limnogeology since having the remarkably good fortune of becoming involved, as a graduate student, in the 1992 USGS campaign to core Owens Lake in eastern California. I was present during the drilling and still remember the wonder of looking at the changing colors, grain sizes, and layering of the sediments in each 10-foot section of core I helped to log. I went on to study the clay mineralogy, carbonate content and stable isotopes of the carbonates for my dissertation, just a few of the many different proxies that would eventually yield a nearly 800,000-yr-long paleoclimatic record. Since taking up my teaching career in the Northeast, I have added pollen and diatoms to my repertoire and have enjoyed getting undergraduates out on the ice in winter to take sediment cores that form the basis of senior seminar and thesis projects. I have also carried out extensive studies of pluvial Lake Estancia in central New Mexico, working not only on the limnogeologic record of hydrologic change but also on numerical modeling simulations of different LGM climate scenarios for comparison to the data contained in shorelines and basin center deposits. The modeling studies required additional work on modern boundary layer meteorology, and it is the combination of techniques needed to interpret the paleolimnologic record that I find so intellectually stimulating. If elected to the Vice Chair position, I look forward to further promoting the multidisciplinary aspects of limnogeology, to helping the Chair with outreach to underrepresented constituencies, and to getting more students, particularly undergraduates, involved in our discipline."

"I look forward to further promoting the multidisciplinary aspects of limnogeology"

Past Kerry Kelts Recipients: *Where are they now?*

On the suggestion of former Limnogeology Division Chair, **Scott Starratt**, I reached out to a couple of past recipients of the Kerry Kelts research award (see current call for applicants on page 3) to see where they are now. My hope is in the future we will reach out to more past recipients and perhaps make this a fairly regular segment of the spring newsletter.

2004 Recipient - Dr. Susan Zimmerman

“I was very honored to receive the Kelts Award late in my graduate work. Aside from the funds, the recognition was a great boost to my confidence, and I got a personal phone call from Elizabeth Gierlowski-Kordesch with the news, and I couldn’t believe I was really talking to her! I did my undergraduate thesis on a Triassic black shale from the rift lakes in the Northeast, so I knew her work and reputation from the beginning of my career. Over the years at GSA meetings we came to be warm colleagues, and I miss her very much.

When I finished my dissertation on the chronology and geochemical proxies of the glacial-age Wilson Creek beds at Mono Lake, I took a post-doc in the radiocarbon lab at CAMS, the Center for AMS at Lawrence Livermore National Lab in California. The job advertised was to pursue radiocarbon dating in the context of Holocene lake research, and so my post-doc project required me to call up scientists working in the western US and offer to provide radiocarbon dates in exchange for collaboration on their projects. Really! I can’t imagine a better project to start my career – I’ve developed some wonderful collaborations. I never expected to spend my career at a national lab, but I’m still at CAMS 15 years later, and feel very lucky to look forward to going to work every day.

My personal philosophy is to always have a plan, but never be afraid to change it. When I went to college,

I meant to go to into the foreign service and travel the world! Geology happened along, and I followed to see where it would take me. It’s good to have some idea of what kind of shape you want your life to have (at work and at home), but life does some pretty unexpected things sometimes. I try to consider new opportunities, find the good in where I am, and always count my blessings.”

“always have a plan, but never be afraid to change it”



2007 Recipient - Dr. Michael McGlue

"I was lucky to win the Kerry Kelts Award back in 2007. I was a doctoral student in Andy Cohen's lab at the University of Arizona at the time, and almost certainly not the most talented student in the Division. I don't remember the details of my proposal clearly, but I'm sure feedback from friends helped out a lot – I was surrounded by many excellent geoscientists in Tucson. When I think back to 15 years ago, those folks are what I remember the most, as well as the friends I made in Syracuse a few years beforehand, where my 'learning journey' in limnogeology got started as a student in Chris Scholz's lab.

"...one of the things I value most about the field - the relationships you build through shared interests, common goals, and challenges overcome."

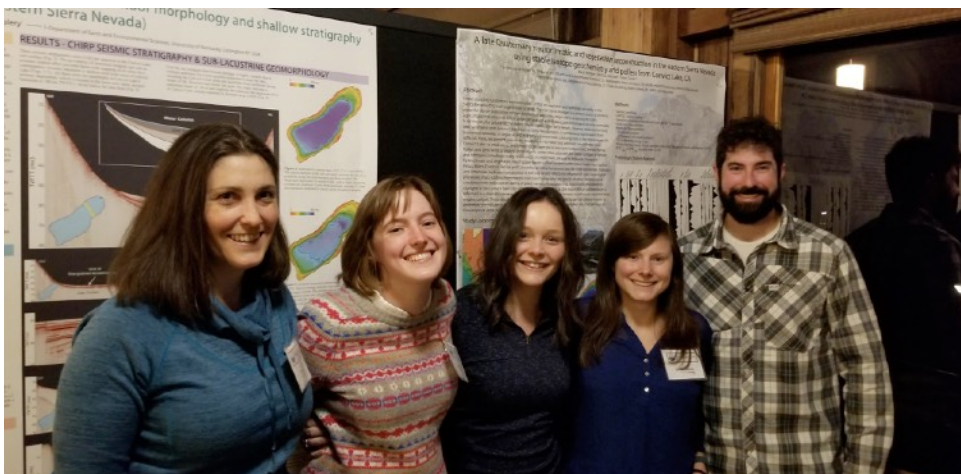
I spent a great deal of time in the field as a graduate student (Brazil, Argentina, Tanzania, and Uganda, mainly), sampling some pretty remarkable lakes. Some of those lakes are famous, and others are well-known only to me and a select few others (a fact I enjoy). I can picture each one in my mind so easily, along with a story about an impossible-to-collect core, a troublesome seismic profile on a windy day, or a cold beer at sunset on a gorgeous lakeshore with friends...friends I would never have met without limnogeology. That is one of the things I value most

about the field - the relationships you build through shared interests, common goals, and challenges overcome.

Nowadays, I study lake sediments as a faculty member at the University of Kentucky, so you could say that the Kelts Award helped me build towards a career, and I am grateful for that. I feel quite lucky to have found this field, which happened rather by accident. I still work in the Southern Hemisphere tropics, and I've started to study a few lakes in the western USA, too (at the prompting of another Kelts Award winner, Susan Zimmerman). All of that research has been supported by some truly amazing and dedicated students. It has been a fun ride – difficult at times, but always rewarding.

Advice for graduate students?

No problem...wherever you do research, make a genuine effort to cultivate meaningful and long-lasting relationships with local scientists/students - you will be so glad that you did. Thanks again to the Division for providing opportunities like the Kelts Award to graduate students – I think it is one of the most important things we do."



#RockTok

A SPOTLIGHT ON SOME LAKE/GEOLOGY RELATED SOCIAL MEDIA ACCOUNTS

***Please note:** the Limnogeology Division in no way endorses these accounts, we have not viewed all of their videos, and therefore do not know all of their content/views/beliefs, as a result take these as suggestions for places to find geology related content! Start exploring social media for fellow rock and limnology-nerds!!

Geo Rutherford

“Great lakes enthusiast, artist, & teacher”

Tiktok: **@geodesaurus** (1.3 million followers)

Created art with trash from the shores of the Great Lakes, categorizing them in vials, documentary about her art called “Um Yes, Hello - The Geo Rutherford Story” on youtube

♦ Her Tiktoks feature various lakes from around the world, highlighting the interesting bits

@Rocktokcate

Self described groovy geologist

Scicomm account with geology focused posts, activism focused

Hosts live “Rocks to Hops” Wednesdays at 9 pm EST

Tiktok: **@rocktokcate** (174,000 followers)

@dykanite

“Maybe its a geology lesson, maybe its a crisis”

LGBTQIA+

Volcanologist/general geology

Tiktok: **@dykanite** (138,100 followers)

@geobeckly

“Geologist, Earth Science Communicator”

Tiktok: **@geobeckly** (11,800 followers)

Great Lakes Great Responsibility

Organization with the goal of picking up 1 million pieces of trash from the Great Lakes, currently at 113,338 pieces!

Tiktok: **@greatlakeslove** (96,100 followers)

Instagram: **@greatlakesgreatresponsibility**

Facebook: **Great Lakes Great Responsibility**

@azurite.emily

“PhD in Geology, learn about Geology, Natural History, and Earth Science!”

This account has exploded in the last 6 months, going from ~5,000 followers to over 57,400!!

Tiktok: **@azurite.emily** (57,400 followers)

@latinegeologist

“USDA Research Fellow, Let me teach you about the mineralosphere”

Addresses issues of lack of diversity in the field

Tiktok: **@latinegeologist** (17,600 followers)

@mantle_salamander

“Aspiring geoscientist and dying grad student”

Hosts Climate Science Sunday

Tiktok: **@mantle_salamander** (1,500 followers)

If you know an account that deserves promoting let us know! Email: shilling.andrea@gmail.com