

Geological Society of Minnesota

Board Meeting Minutes for May 16, 2019

- I. Notes and opening comments.
 - A. Board members present Roxy Knuttila, Frank Janezich, Joe Newberg, Dave Kelso, Dave Wilhelm, Dick Bottenberg, Kate Clover.
 - B. Other GSM members present Steve Erickson, Joel Renner, Alan Smith, Dan Japuntich, Patrick Pfundstein, Becky Galkiewicz.
 - C. President Dave Wilhelm called the meeting to order at 7:00 pm and indicated that a quorum was present.
 - D. Minutes for the Feb 19, 2019 Board meeting were previously approved by e-mail and posted on the GSM website. FYI: Board members have 10 days to review the preliminary minutes after the Secretary sends them out. Please be sure to do that by the date set by the Secretary.

- II. Agenda items for consideration by the Board.
 - A. Review and agree on the agenda for May 16, 2019.
 1. Board members agreed on the agenda.
 - B. Future Board meeting dates.
 1. Aug 8, 2019
 2. Nov 14, 2019
 - C. Board status - Dave W.
 1. Current Board membership

a) Wolf Bielefeld	2019 to 2022
b) Roxy Knuttila	2019 to 2022
c) Frank Janezich	2019 to 2022
d) Joe Newberg	2018 to 2021 began May 2018
e) Dave Kelso	2018 to 2021
f) Deborah Naffziger	2017 to 2020
g) Dave Wilhelm	2017 to 2020
h) Dick Bottenberg	2016 to 2019
i) Kate Clover	2016 to 2019
 2. Current Officers.
 - a) President – Dave Wilhelm
 - b) Vice President – Deborah Naffziger
 - c) Treasurer – Dave Kelso
 - d) Secretary – Dave Kelso

 - D. Treasurer's report – Dave K
 1. Financial Report (report using laptop)
 - a) Dave K presented the financial report for the past three months.
 - b) Dave K indicated that the financial report will be forwarded to Board members in advance of Board meetings.
 - c) The financial report will consist of the Income/Expense statement and cash balances of bank accounts.
 2. Board member review of finances – Deborah
 - a) Deborah was not present but indicated to Dave W, via email, that the checkbook register and TCF bank statements for the last three months have been reviewed and found to be in order.

3. Plans for GSM investments and savings account – DaveK/Deborah
 - a) Deborah and DaveK will meet with a Broker (familiar to Deborah) and determine what investment options are available to the GSM.
- E. Financial reports & other non-public info on the GSM website – Dave W/Alan
 1. Alan has developed a prototype of a password protected area on the GSM website in which non-public documents (not including background checks) could be stored and to which Board members would have access. Dave W has tried it and suggested a few changes to Alan, most notably that there should be separate ids/passwords for reading versus entering. We hope to make this available to all Board members for trial in the next few weeks.
 - a) Dave K has tried it and asked what format financial reports should be submitted in. Alan thought PDF works best for posting. Dave K will send a few financial reports to Alan for testing.
 - b) Alan will look into what it would take for Dave K to post directly to the website instead of submitting through Alan.
- F. GSM website – Alan
 1. Status of new website.
 - a) Alan is resuming work on it.
 2. Backup webmaster (Joanie) for when Alan is unavailable.
 - a) There are some minor complications, but it is coming together.
- G. State Fair – Dan
 1. See “State Fair Committee Report” attached to these minutes.
 2. Dan J emphasized that you do not need to be a Geologist to volunteer at the fair.
- H. GSM Marker Survey project – Becky
 1. Status
 2. Report on Portsmouth Mine marker
- I. Minnehaha marker replacement status – Kate
 1. Dick B gave an update on the history of the Minnehaha marker project and indicated that the marker project should be re-started in June and hopefully completed this year..
 2. See “Minnehaha Falls Marker Update” attached to these minutes.
- J. GSM scholarships and grants– Dave W
 1. ILSG student scholarship for 2019 – Dave W presented a \$200 award to ILSG Treasurer Mark Jirsa at the March 11 lecture which Mark was the presenter.
 2. See “ILSG appreciation letter” attached to these minutes.
 3. See “ILSG Sponsors list” attached to these minutes.
 4. Received a request to help fund a mock dinosaur dig site on the Rosemount High School campus. See “Rosemount High Dinosaur Dig Request” attached to these minutes.
 5. **M/S/P**(Joe/Dick) to donate \$200 to the Rosemount High Dinosaur Dig.
- K. Adding a multiyear membership renewal.
 1. At the Nov 2018 meeting, decided that the Board could designate, at its discretion, lifetime memberships to persons who made or make exceptional contributions to GSM.
 2. Report of lifetime membership for Doug Zbikowski – DaveK/DaveW.
 - a) A letter was available for Board signatures and will be sent to Doug.
 3. Discussion of multi-year renewal – proposal of revised membership form to be supplied – Dave W.
 - a) See “Membership Application and Renewal” attached to these minutes.
 4. **M/S/P**(Roxy/Joe) to accept the new form as presented.
- L. GSM Rock Hammer awards – Theresa

1. Approximate cost of these are \$26 each of which Theresa has been paying for. GSM should pick up the cost of the hammer awards.
 2. See "GSM Rock Hammer Awards" attached to these minutes. The report includes who has received awards in the past but excludes future prospects for the award.
 3. **M/S/P** (Joe/Frank) to accept the list of future prospects for the Hammer Award.
 - a) The list of future prospects for the rock hammer awards has been excluded from these minutes to maintain the element of surprise.
- M. GSM baseball caps for members – Joe N
1. Joe will put together a sample and bring to a future meeting for consideration. It was also discussed that maybe Joe should just order 50 or so hats and see how it goes. No specific recommendation was made by the Board.
 2. Written report forthcoming.
- N. Lectures and Labs – Steve/Dave W
1. Bonus lecture added May 20, 2019 by nationally recognized author Peter Brannen, in Tate Hall Room B50 (capacity 250). Cosponsored by Don Shelby (\$500), GSM (\$250), MN350 (\$125), and Climate Generation (\$125). Don Shelby will introduce the speaker; suggested by Carrie Jennings.
 2. Report of this years' lectures & labs – Steve
 - a) Weather and the Final Four tournament had some effect on attendance.
 3. Report on lecture & lab attendance figures – Dave W
 - a) See "GSM Lecture Attendance" attached to these minutes.
 4. Plans for next years' lectures & labs – Steve
 - a) Plans are coming together for next year.
 - b) If you have any ideas and/or recommendations for lecture topics, please let Steve know.
 - c) See "Possible lectures for next year" attached to these minutes.
- O. Report on 3M contribution for volunteer hours – Dave W
1. A special "thank you" to Steve for his volunteer hours donation to the GSM through 3M.
 2. See "Steve Erickson Newsletter Article" attached to these minutes.
- P. Banquets – Dave W
1. Spring Banquet was held at U Garden on May 6, 2019 – 98 in attendance.
 2. Propose that the Fall Banquet be held at the same location on Sep 16, 2019.
 3. Propose to start the banquet speaker at 6:30 instead of 7:00.
 - a) **M/S/P** (Joe/Dick) to start the banquet speaker at 6:30.
- Q. Status of lecture video recording – Joe W
1. Status (written report on which lectures have been recorded, and which of those have completed editing).
 - a) Lectures are being recorded, when applicable. Dick B has been filling in when Joe W is not available for recording. It was discussed that perhaps Deborah could be brought into this.
 - b) See "Video Report" attached to these minutes.
 2. Availability & process for member access to recordings.
 - a) See "GSM YouTube" attached to these minutes.
 - b) Steve E indicated that he has been informing lecturers that recorded lecturers are not available on YouTube or the GSM website.
 3. Equipment purchases – no discussion
 4. Formation of video team – no discussion
 5. Complementary recording to each presenter – no discussion
- R. GSM Student Outreach – Joel Renner/Dave W

1. See "Outreach Update" attached to these minutes.
 2. "Raptors, Reptiles & Rocks" at St. Marks School in St. Paul.
 - a) See "Raptors, Reptiles, Rocks" description attached to these minutes.
 - b) See "Raptors, Reptiles, Rocks" flier attached to these minutes.
 - c) See "Cookie Monster Geode" attached to these minutes.
 3. Dino Fest at the Science Museum of MN, Sat. July 13 at 10am to 4 pm.
 - a) See "GSM at Dino Fest" attached to these minutes.
 - b) Pat P volunteered to organize this event. Steve E will also be there.
 4. Earmarked contribution: GSM member Tom Schoenecker would like to do the following: arrange yearly school student outreach visits to a school in Excelsior and make an earmarked contribution to GSM to pay for them for as long as the funds last – Joel/DaveK.
 - a) Joel has agreed to work with Tom on this.
 - b) Dave K will look into the appropriate accounting process to assure that funds are allocated appropriately.
- S. Membership report – Joanie
1. We currently have 185 members and 8 of those are new in the past 3 months.
- T. PO Box Status
1. President, Treasurer, and Membership Chair have keys. Box has been checked semi-regularly, typically before lectures, 1-2 items per week, after the rush of membership renewals in September and October.
 2. Outside of lecture season, each keyholder should inform the others when they check the box, so we know if it has been a long time since it was checked.
- U. GSM Operating Manual update ad review – Deborah/Dave W
1. Dave W and Alan have prepared a preliminary section on the website.
 2. Dave W has not yet prepared a preliminary section for lecture recording.
- V. Field Trip plans and feedback – Dave W
1. See "Field Trips & Tours Board Report" attached to these minutes.
- W. Video Library – Dave W
1. Please see "Video Library Board Report May 2019" attached to these minutes.
- X. Report on in-memorial contributions, if any – Theresa/Dave K
1. Nothing to report.
- Y. Receiving, acknowledging, appraising, and disposing of material contributions (rocks, tools, etc.) – Dave W
1. Dick B received materials from Doug Z that he has delivered to Dave W that need to be inventoried.
 - a) No progress to date.
 2. Materials (field trip itineraries, notebooks, photos) were donated by the family of Judy Hamilton. More might be coming.
 - a) Dave W has made initial inventory; no further progress.
 - b) Many newsletters, some of which we might be missing; need to compare with what is on the website.
- Z. "Ask GSM" activity – Theresa
1. Relatively low activity this quarter.
- AA. Newsletter – Theresa/Mark
1. The newsletter is on schedule for May, 2019.
- BB. Holiday party – Dave W
1. Thank you card and gift card were presented to the Steffners at a recent lecture.
- CC. New Topics – All

1. Discussed providing GSM “talks” at Minnehaha Falls in conjunction with the new Marker.
 - a) Pat P is interested in this, and possibly Kate C.
- DD. 2019 Goals
1. Install new big-picture marker at Minnehaha Falls during 2019.
 2. Develop a plan and prioritize marker installation/repair for Minnesota’s geological markers based on the recent marker survey.
 3. Continue developing a GSM marker database and survey the markers in 2019.
 4. Develop video recording crew and optimize the equipment and processes; have first video recording of a lecture available to members in 2019.
 5. Complete update of GSM Operating Manual during 2019.
 6. Others goals we should add?
 - a) None at this time

EE. Adjournment

1. M/S/P (Joe/Dick) to adjourn.

III. Attachments

- A. State Fair Committee Report
- B. Minnehaha Falls Marker Update
- C. ILSG Appreciation Letter
- D. Rosemount High Dinosaur Dig Request
- E. Membership Application and Renewal
- F. GSM Rock Hammer Awards
- G. GSM Lecture Attendance
- H. Possible Lectures for next year
- I. Steve Erickson Newsletter Article
- J. Video Report
- K. GSM YouTube
- L. Outreach Update
- M. Raptors Reptiles Rocks - email
- N. Raptors Reptiles Rocks – flier
- O. Cookie Monster Geode
- P. GSM at Dino Fest
- Q. Field Trips & Tours Board Report
- R. Video Library Board Report May 2019
- S. ILSG Sponsors list

Attachment A
State Fair Committee Report
Submitted by Dan J

Chair: Daniel Japuntich

State Fair Committee: Rebecca Galkiewicz, Dan Japuntich, Dick Bottenberg, Edward Steffner, Roger Benepe, Sandra Steffner, Theresa Tweet, Patrick Pfundstein

Report:

- 2019 State Fair License Agreement – complete.
 - Received license agreement/invoice and returned payment.
 - Submitted Proof of liability insurance (certificate of ins. to State Fair).
 - Submitted Workers' comp. Insurance form (lime color to fair).
- The Booth staffing recruitment note was included in newsletter.

- Booth staffing lecture announcements were made before and at the three final spring meetings, with future periodic broadcast announcements every two weeks.
- As of this date, the State Fair Booth staffing is 63%. (45 out of 72 people). Previously at this date, staffing was in 2018-68%, in 2017-75% and in 2016- 83%.
- A State Fair Committee meeting will be held tentatively in July at my home at 1092 Lincoln Avenue, St. Paul.
- Booth set-up is Wed. Aug. 21 at 11:00. Booth take-down is Sept. 3. At 11:00. Meeting at my house.
- When the 2019-2020 Lecture Schedule is received, it will be “ready-for-printing” formatted by me, and the brochures will be printed.
- State Fair Booth Staffing attached

<u>STATE FAIR BOOTH</u>			
<u>STAFFING 2019</u>			
DATE	9 AM TO 1 PM	1 PM TO 5 PM	5 PM TO 9 PM
22-Aug	Ed Steffner	Nina Ward	
	Ted Chura	Jim Mirick	
THURS			
23-Aug	Jim Curme	Jim Mirick	
FRI			
24-Aug	John Jensen	Patrick Pfundstein	Paul Jensen
	Ruth Jensen		Janet Hopper
SAT			
25-Aug	Bill Robbins	Dick Bottenberg	Ly Preece
	Vern Schaaf	Joe Wright	Deb Preece
SUN			
26-Aug	Alfred Kauth	Jack Matlock	Norm Smythe
			Michael Convery
MON			
27-Aug	Heather Johnson	Greg Beckstrom	
		Harvey Thorleifson	
TUES			
28-Aug	Carol Kissner		
	Claude Buettner		
WED			
29-Aug	Harry Wernecke	Mark Ryan	Dave Wilhelm
		Pat Ryan	Mary Kay Arthur
THUR			
30-Aug	Steve Erickson	Frank Janezich	
		Roxy Janezich	
FRI			

31-Aug SAT	Steve Erickson	Theresa Tweet	Elaine Handelman
		Jason Tweet	
1-Sep SUN	Patrick Pfundstein	Alan Smith	Joanie Furlong
		Kay Smith	Randy Strobel
2-Sep MON	Glen Lee		Dan Japuntich
			Dorothy Edelson

Attachment B
Minnehaha Falls Marker Update
Submitted by Dick B

Subject: Minnehaha Falls Marker Update

I just received an email from MaryLynn, the Park Board rep. She says that the Park Board's standards for markers have been approved. She hopes to re-start in June. She also is looking for GSM members to lead Geology tours at the Falls. See below:

"Well, I cleared one major hurdle – the overall redesign of our interpretive signs has been approved so that is very good news! I am reviewing and vetting potential graphic designers to finish up the work on the individual signs and hopefully I can have someone working on those sometime in June. So the project is not quite on the front burner, but it's not on hold either. I'm an optimist at heart, so I want to say we'll still get it in this summer.

By the way, at one time we talked about volunteers from the Society leading geology tours at M'haha, are people still interested in that?"

Dick

Attachment C
ILSG Appreciation Letter
Submitted by Dave W



March 11, 2019

Geological Society of Minnesota
c/o David Wilhelm
3449 Fairfax Ln
St Paul, MN 55129-9345

Dear Dave and all members of GSM;

Thanks so much for your check for \$200 to the INSTITUTE ON LAKE SUPERIOR GEOLOGY Student Travel Fund. As you know, your donation will support student participation in all that the ILSG has to offer, and hopefully encourage students to conduct research and seek employment in the Lake Superior region. Your support is much appreciated!

If this is relevant to GSM, you should know that your donation is tax deductible. The ILSG operates under Federal laws applying to 501(c)(3) status. For your records, our tax number is: 23-7326054.

Thanks again for your support. It will be acknowledged in Proceedings of the 2019 Annual ILSG meeting in Terrace Bay, Ontario. I hope to see some of you there!

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Jirsa', with a large circular flourish at the end.

Mark Jirsa-treasurer
Institute on Lake Superior Geology

Attachment D
Rosemount High Dinosaur Dig Request
Dave W

Below is correspondence I have had concerning a request for GSM to help fund a mock "Dinosaur Dig" at Rosemount High from a science teacher there. Go to the bottom for the most pertinent information. The GSM member I refer to in the correspondence is Roger Benepe, who thought that the project had merit. I am suggesting we might contribute a small part of their funding needs.

Dave Wilhelm

Dave,

I really appreciate that you are keeping this project on your mind enough to speak with other people about it. I did reach out to the Science Museum and they told me about not being able to help financially, however, they did not mention technical advice. I will be sure to reach out to them again.

Again, I am impressed and grateful that you are thinking about this project. If you could still please bring this up at your next meeting on the 16th I would greatly appreciate it.

Thanks again,
Joe Christman
RHS Science

Joe,
I spoke recently to one of our members who works at the Science Museum of Minnesota. He recommends that if you have not already done so, you should consult with the Science Museum on your proposed project. He says SMM can't provide financial support, but they could provide technical expertise.
Dave

Good morning Dave,
I wanted to thank you for your email and response. I also wanted to thank you for bringing my request to the board. I really do appreciate it.

Let me know if you have any questions.

Joe Christman

Joe,
Thank you for using "Ask GSM". The GSM Board meets this coming May 16. We will take your request under consideration and let you know. If any questions arise before then, I will contact you.
Dave Wilhelm

Subject: [Message to President:] Classroom Donation

My name is Joe Christman and I am a high school science teacher at Rosemount High School. I created a new science elective class which revolves around dinosaur paleontology. An important part of paleontology is doing research in the field and I felt as though this was an important aspect of the science students should experience. Understanding field research can give students skills in organization, attention to detail, spatial reasoning, and interpretation of data.

To give students this experience, I am building a mock dig site on campus. This includes a 20x20 foot area filled in with sand and gravel. Replicas of dinosaur fossils will be placed in a matrix of sand and wax. Students will be using geologic rock hammers, chisels and other field equipment to record, analyze and excavate the fossils.

I am asking you to consider donating to this endeavor. The budget for this project is \$3,000. Anything you can give is much appreciated. Science is about curiosity, evaluation, and putting pieces of evidence together. This is a unique experience for students, however, it is a necessary one. It is an experience that will illuminate and inspire students to consider a career path in science.

If you have any questions please either email (address below) or call me back. I would like to thank you in advance for your consideration.

Joe Christman
RHS Science

Attachment E
Membership Application on Renewal
Submitted by Dave W

GSM Membership Application/Renewal

Membership year begins September 1

Questions? Call (612) 724-2101 or click the [Contact](#) tab on the GSMN home page

Name _____ Phone (H) _____

Address _____ Phone (C) _____

City _____ State _____ Zip _____

Email Address(es) _____

New members: Where did you get the info or stimulus that prompted your GSM membership?

Membership: Please make check payable to: **GSM**

Please mail to:

Geological Society of Minnesota
P.O. Box 141065
Minneapolis, MN 55414-6055

Membership Levels& Durations (circle one):

- Student _____ \$10 (1 year)
- Individual _____ \$20 (1 year); \$40 (2 years); \$60 (3 years)
- Family _____ \$30 (1 year); \$60 (2 years); \$90 (3 years)
- Sustaining _____ \$50 (1 year)
- Supporting _____ \$100 (1 year)
- Guarantor _____ \$250 (1 year)

_____ Membership fee (from above)

_____ Media-library membership--add \$15 one-time fee

_____ Tax-deductible contribution (GSM is a 501(c)3 nonprofit educational organization)

_____ Check here if you want a contribution receipt for tax-filing purposes.

_____ Total included

Thank you for your membership in the Geological Society of Minnesota.

Attachment F
GSM Rock Hammer Awards
Submitted by Theresa

GSM Rock Hammer Awards
Theresa Tweet

Theresa has 5 hammers available. After this year, the next set of Hammers should be given out in 2021. I don't know what the exact cost will be for them then, but at this time I am purchasing the leather bound handled E30's at a discounted price of 25.52 each.

GSM Hammer Recipients to Date

If I recall correctly; 2010/ 2011 were strictly "everybody" recognition events and Silent Auctions, with certain people being given small "GSM" geology loops for their volunteer efforts – with Roger receiving the first hammer with a GSM disc on it. Two noteworthy recipients also received beautiful pewter Tankards with the same type of disc on the handles.

Roger Benepe 2011

Harvey Thorleifson 2013 A Hammer was given acknowledging the long-standing partnership between the Geological Society of Minnesota and the Minnesota Geological Survey. Harvey had also served on our Board of Directors for 4 years, helped with the Legacy Grant, given us a place to hold our Board Meeting, works with Rich Lively on our Newsletters, worked to scan all of our newsletters into digital / online form, and helped with items for the Silent Auctions.

Dick Bottenberg 2013

Rich Lively 2015

David Wilhelm 2015

Randy Strobel 2016

Bill Robbins 2016

Steve Erickson 2016

Janet Hopper 2017 Janet was given a gold and genuine stone necklace identified at Macalester Lab.

Alan Smith 2017

Theresa Tweet 2017

Joanie Furlong 2017

Mugs created by Tom Cody (5/6/2013): Bill Robbins, Steve Erickson, Doug Zbikowski, Joanie Furlong, Katie Paul, Randy Strobel, Alan Smith, Ed & Sandy Steffner, Fran Cochran, and Alan Bowles.

Attachment G
GSM Lecture Attendance
Submitted by Dave W

GSM Lecture Attendance

2018-2019

Summary: 15 lectures, 1181 total attendance, 91 average attendance (excludes lab), 78 new

2019-05-06 98 Fossils on the Iron Range (*1 new person – State Fair*)

2019-04-22 90 The Rover as a Field Geologist: Strategies for Understanding a Planet (*3 new persons – website, heard from MAS*)

2019-04-08 74 Does Anybody Really Know What Time It Is? To a Geologist, it Depends on When You Start the Clock (*3 new persons – friends*)

2019-03-25 102 Land of Fire and Ice: The 2017 Institute on Lake Superior Geology trip to Iceland, and insights into Minnesota's own rocks and sediments (*3 new persons – friends*)

2019-03-11 77 Geology of the Minnesota Arrowhead (*2 new persons – website, friends*)

2019-02-25 85 Dinosaurs and Our World (*7 new persons – website, state fair*)

2019-02-11 79 The Great Magnet: Paleomagnetism and The Earth's Magnetic Field (*1 new person – friend*)

2019-02-09 ~45 Learning How to Identify Minnesota's Fossils (*Saturday lab; not included in averages*)

2019-01-28 52 The Nitrate Contamination Problem in Southeastern Minnesota: The Importance of Geologic Controls (*weather was far from ideal; 2 new persons – website, friend*)

Summary for Fall 2018: 7 lectures, 706 total attendance, 101 average attendance, 56 new

2018-12-10 93 Life and Death in Ancient Madagascar: Updates on the Spectacular Taphonomy of the Cretaceous Maevarano Formation (*no new persons*)

2018-11-26 101 Getting to the Core: Understanding Past Climate, Human Impacts, and Geological Processes using Lake Sediment Core Samples (*5 new persons – web site, friends. Two new attendees were researchers from Science Museum of MN conducting research*)

2018-11-12 113 Tectonics versus Sea-Level Change in the 21st Century (*8 new persons – state fair, friends. Parking issues caused at least 2 persons to not attend*)

2018-10-29 110 Meteorites: Hard Evidence in the Mystery of our Cosmic History (*~12 new persons*)

2018-10-15 95 Looking for Evidence of Life in the Rock Record: Yellowstone National Park Hot Springs, 3.5 billion-year-old Deposits in Australia, and the Mars2020 Rover Mission (*10 new persons – state fair, friends, St. Thomas geology prof, rock show*)

2018-10-01 82 The Flambeau Mine, Ladysmith, Wisconsin: Geology, Minerals, Reclamation (*12 new persons – state fair, friends, Harvey, internet*)

2018-09-17 112 Caves of Minnesota (*fall banquet & annual meeting; ~9 new persons – state fair, website*)

Attachment H

Possible Lectures for next year

Submitted by Steve E

Fall Banquet :

September 16 Randy Strobel " The Geology of the Bakken Formation, North Dakota"

September 30 Ben Sheets, PhD, Senior Geologist, Barr Engineering "Introduction to Alberta Oil Sands Mine Tailings: Management, Regulation, and Current Research"

October 14 Terry Smith PhD. Retired 3M, "What causes color in minerals and why it is important".

October 28 Alex Hastings SMM "Reptilian Giants of South America after the End Cretaceous Mass Extinction"

November 11 Prof. Kevin Theissen St. Thomas "Natural Archives From Shallow Lakes, Wetlands, and Springs of the Great Basin Show Evidence of Extended Periods of Drought Over the Past 6000 Years."

November 25 Laurel Woodruff, USGS "The Midcontinent Rift System - Almost an Ocean"

December 9 (two speakers) James Fallon, Supervisory Hydrologist MS Water Resources Science, University of Kansas, Civil Engineering Title of Talk: "History of the USGS- From John Wesley Powell to Streamgaging"

Julia Prokopec, Hydrologist BS Environmental Studies, Emphasis in Geohydrology, Bemidji

State Title of Talk: USGS Flood Inundation Mapping Program

Mondays, Spring 2020 MLK University closed 20 January 2020

3 February Harvey Thorleifson, MGS, "Geological mapping of our world — how it works in the current era"

LAB

17 February Christian Teyssier, Professor and George and Orpha Gibson Chair of Geoscience, U of Minnesota, "Building Australia, the Geology Down Under"

2 March Prof. Alan Chapman Macalester College "Crossing a continent: detrital zircon evidence for Mississippian (ca. 330 Ma) sediment transport from the Appalachian Mountains to the Grand Canyon and beyond"

16 March Prof. Jeni McDermott, St. Thomas "Neotectonic fault reactivation and landscape rejuvenation on Norway's post-glacial rifted margin"

30 March

13 April

Attachment I

Steve Erickson Newsletter Article

Submitted by Theresa

Hot off the Press!

For most of my time here with the Geological Society of Minnesota, I have seen our Lecture Coordinator Steve Erickson as a dedicated volunteer, a hard worker, and the Go-To-Guy when you want something done, and done right. By far, Steve's biggest contribution to GSM has been developing our outstanding lecture schedule each year, something he has been doing since 2007. Over the past dozen years, Steve has put together an extensive list of geology and Earth science experts across academia and industry, from which he always develops a diverse and interesting slate of lectures and labs. Just recently, I received an email stating that Steve, as an employee of 3M, had applied for and received a matching grant payment for \$500.00 from the 3M Foundation. The grant is given on behalf of those employees who volunteer at least 50 hours to a qualifying organization, and Steve's efforts putting together the GSM lecture schedule certainly exceed that. The 3M Volunteer Match grant can be used for the GSM's general operations costs such as the State Fair fees, insurance, office supplies and the like. When you get the chance, make it a point to thank Steve for his continued dedication to our organization - thank you Steve, this is terrific news!

–Submitted by T. Tweet.

Attachment J

Video Report

Submitted by Joe W

Video report

One of the assignments was to try to get more videographers so we don't miss any meetings. Dick Bottenberg and I have linked up and he has covered for me when I could not make it. Dick works as we live/work close enough to transfer the camera if needed. Unfortunately, the last meeting I was off schedule by a week and Dick was in Israel.

During this year we had a few times with either the presenter was not mic'ed up or the volume was low. I was able to turn up the volume on the mic. Unfortunately I had not shown Dick enough to get the right adjustments. In the process I think the settings for the video was changed.

I have am going back to reset the video settings this weekend and will save the settings to memory so we can have consistent settings to start with every week.

My daughter does videos with iMovie. I'm having her develop a better intro and may get a drop in video so we can just drop in the weekly, adjust the title. Since Steve is not too hot on being on the videos introducing the presenter I'm going to talk to my daughter about the intro to allow a voice over introduction.

Joe

Attachment K
GSM YouTube
Submitted by Pat P

GSM YouTube (and other?) Lecture Video Options

YouTube can undoubtedly be an outlet for GSM lecture videos if the board wishes to move forward on this project. Along with the specifications for videos on this outlet, below I've gathered a bit of how-to, some alternative options, and some links to handy sources of information (since internet info is highly malleable/perishable and implementation may or may not be immediate).

I've also listed of some of the key questions the board should consider in shaping a decision on video sharing.

(I'll answer the questions myself at the bottom, not as setting an official position, but more as a spur to discussion. Sometimes somebody has to say something nuts to make you realize that you know the right answer!)

Specifications for YouTube (from SproutSocial):

"While YouTube allows users to upload various types of media formats and use plenty of different dimensions, organically, there's truly only one format for the video player. These videos should all follow 16:9 ratio, but can be uploaded 4:3. However, the smaller ratio will automatically **pillarbox** the sides to still make it fit in the player. YouTube has seven recommended dimensions and ratios for standard YouTube videos:

Recommended dimensions: 426 x 240 (240p), 640 x 360 (360p), 854 x 480 (480p), 1280 x 720 (720p), 1920 x 1080 (1080p), 2560 x 1440 (1440p) and 3840 x 2160 (2160p).

Minimum dimension is 426 x 240.

Max dimension is 3840 x 2160.

Aspect ratio is 16:9 (auto adds pillarboxing if 4:3).

Max file size is 128GB or 12 hours, whichever is less.

Accepted video formats include: .MOV, .MPEG4, MP4, .AVI, .WMV, .MPEGPS, .FLV, 3GPP, and WebM.

Video length max is 12 hours.

(Unquote)

I'm not sure what format/size is currently set in the camera, but unless there is another use for the videos, they are best shot in one of the specified styles. That prevents spending time either reformatting the video prior to upload (not a small matter), or spending extra time uploading data that won't be used (and waiting the extra time for YouTube to format your out-of-spec file to fit the standard viewer. (Example: I can slash facebook picture upload times to a fraction of the time by downsizing my images before uploading. Processing this on my computer is much faster than having facebook do it remotely.)

The more time spent to process the file in advance or to upload the file, the more onerous the task (and the less likely uploading the videos will be sustainable).

How To Set Up a Channel

As I reported via email back in March the how to part is pretty easy (it took just a few minutes for me to set up an individual page), and the likely route would be for GSM to set up an organization page. YouTube is part of Google, so the process starts with registering with Google. The How To links are in both my earlier email, and in the Link section below.

Other Options:

SproutSocial's link lists other popular video sharing options (like Vimeo, Instagram, and Twitter). YouTube is by far the largest of these, and if the decision is to share these with the general public, YouTube is probably the best outlet (because it is the most used). However, if private sharing is the chosen path, one of the other services might work better. (I don't know the answer for that.)

Questions to Consider Before Moving Forward:

- Are these to be shared with the public at large, or a "benefit" available only to GSM members?
- Are all lectures to be uploaded, or only some?
- Would uploads include the announcements/cookie break/questions, or just the main presentation?
- Are there presenter permissions that should be gathered before public sharing? If so, does the organization feel comfortable with a verbal consent, or should some formal documentary permission be produced (then signed/filed)?
- Just for future lectures, or select some of the stored files from previous years to upload?

Links:

SproutSocial has a nice page listing several services and their specifications. They also maintain a Google doc with the current specs, which may be handy for whoever is in charge of the video uploading.

<https://sproutsocial.com/insights/social-media-video-specs-guide/#youtube>

Google How To pages for setting up YouTube channels

General How To

<https://support.google.com/youtube/answer/1646861?hl=en>

Specific link for branded page

<https://support.google.com/accounts/answer/7001996>

Eforms Video Release

<https://eforms.com/release/video/>

My answers to the questions (again; intended to spur the conversation, not to be definitive in any sense):

I'd recommend public sharing, which would leverage the expenditures in equipment and volunteer time (to shoot/process/edit/upload) for the growth of GSM's profile, and possibly the growth of GSM (public views of the lectures could lead to new members; or links to our page with a pitch to contribute to GSM to keep the videos coming).

Practically, I don't think every lecture is going to be uploaded. It would be terrible to lose a great presenter, because they won't (or can't) give permissions for uploading. Plus, there may be technical issues preventing some lectures from being uploaded, so building in the excuse that only some lectures will be uploaded (make sure to come in person to see the presentation for sure!) is probably the way to go.

I'd think that the bulk of public interest would be in the presentation starting with the speaker intro. Of second highest interest might be the GSM announcements, but those would also be the most time-perishable.

If there is a GSM resource available, a real simple permission form is probably a good thing to have signed and filed for those who don't mind the lectures going online. These releases can be found on the internet, too, but having an internal resource (lawyer member?) take a peek, or craft something might not be terrible.

The occasional topical lecture from the Archives would probably be of great interest to new members (or those who might join, or members who missed that talk).

Attachment L
Outreach Update
Submitted by Joel

Subject: Outreach Update:

GSM member Tom Schoenecker has offered to do the following:

- Arrange yearly school student outreach visits to a school in Excelsior
- Make an earmarked contribution to GSM to pay for such for as long as the funds last.

Theresa Tweet and Joel Renner, current and incoming coordinators of the GSM Student Outreach Program have provided information about the program to Tom and plan to talk to him about the program in the near future.

Macalester students provided speakers during the current year to scouting groups and schools in the metro area. We are sorry to note that one of the outstanding speakers has graduated and has taken a job as a science educator at Craters of the Moon National Monument. However we have six returning speakers.

Theresa Tweet and Joel Renner, current and incoming leaders of the GSM Outreach Program have provided information about the program to Tom and plan to talk to him about the program in the near future.

Theresa, if you have time would you please provide a short update on the number of presentations made this year and any other news you wish. Thanks.

Attachment M
Raptors Reptiles Rocks – email
Submitted by Dave W

Below is e-mail correspondence on the rescheduled Raptors! Reptiles! & Rocks! program that Theresa and Dave W will do May 30 4 to 6 pm at St. Mark's school in St. Paul. Dave will pick up State Fair rocks and related materials from Dan.

Yes, that would be great!

Here's text - feel free to edit:

Raptors! Reptiles! & Rocks! May 30, 4-6 pm. Family friendly & free! Everyone is invited to see specimens and visit with representatives from The Raptor Center, MN Herpetological Society, and Geological Society of MN. At Saint Mark's School gymnasium, 1950 Marshall Ave, St Paul, MN

Attached are 2 images, one PDF of the flier, and the other a jpg Cookie Monster geode for fun!

On Tue, May 14, 2019 at 12:08 PM David Wilhelm wrote:

Jana,

Just to let you know that Theresa Tweet will join me on May 30.

Should we arrive at 3:30 to set up before the event starts at 4?

Dave

From: Hayden-Sofio, Jana
Sent: Monday, May 6, 2019 12:49 PM
To: David Wilhelm
Cc: Dan Japuntich
Subject: Re: St Mark's: Rocks

Great!

On Mon, May 6, 2019 at 12:49 PM David Wilhelm wrote:

I am available. I'm looking for another person to join me.

Dave

----- Original message -----

From: "Hayden-Sofio, Jana"

Date: 5/6/19 1:45 PM (GMT-05:00)

Subject: Re: St Mark's: Rocks

Have fun! I'm green with envy.

On Mon, May 6, 2019 at 12:24 PM Dan Japuntich wrote:

Sorry, I will be fishing at Voyaguers Nat. Park.

Dan J.

On May 6, 2019, at 12:14 PM, Hayden-Sofio, Jana wrote:

Hello, Dan and David,

The Raptor Center is able to come Thursday, May 30, 4-6. I'm really hoping that will work for the GSM.

I ♥ rocks.

Attachment N
Raptors Reptiles Rocks – flier
Submitted by Dave W



Attachment O
Cookie Monster Geode
Submitted by Dave W



Attachment P
GSM at Dino Fest
Submitted by Dave W

Below is a request from the Science Museum for GSM to participate at their Dino Fest on July 13 10AM-4PM, along with a suggested resource by Theresa. If we do this, we will need someone to lead it up, plus up to 6 volunteers to cover the 6 hours.

Dave W

From: Alex Hastings [mailto:ahastings@smm.org]

Sent: Monday, May 6, 2019 8:38 AM

To: David Wilhelm <dewilhelm53@msn.com>

Cc: STEVE ERICKSON Owner <sgerickson3821@centurylink.net>; Theresa Tweet <phoenix8185@gmail.com>; Roger Benepe (charger4264@earthlink.net) <charger4264@earthlink.net>

Subject: Re: Geological Society of Minnesota at Dino Fest 2019?

Hello David & Steve,

Sure thing! Here's a short blurb, but feel free to follow up with any questions you may have.

Dino Fest will be a museum-wide event at the Science Museum of Minnesota (SMM) on Saturday, July 13th from 10am to 4pm. This will be a celebration for the community to celebrate all things dinosaur. It will also be timed for the completion of the new graphics that will be installed in the fossil hall, giving this part of the museum a 'fresh' look. Table displays will be set up throughout the museum featuring dinosaur and dinosaur-adjacent subjects. In addition to in-house displays from the paleontology collections, there will be tables from community members as well, such as the University of Minnesota and Macalester College. We plan to have live animals as well, drawing the living connection between birds and dinosaurs. There will be short public presentations by SMM paleontologist Alex Hastings as well as presentations from the University. Throughout the museum will be family-friendly activities as well as a members exclusive room.

Table displays are encouraged to incorporate the theme of dinosaurs, but feel free to delve into related topics in paleontology, geology, and biology.

Attachment Q
Field Trips & Tours Bd Report
Submitted by Dave W

GSM Tours and Fields Trips
Submitted by Dave Wilhelm

Besides what is described below, I am hoping to put together a tour or two of facilities in the Twin Cities metro area, as we did last year with the St. Paul Water Works. But I am looking for ideas beyond that, perhaps a day trip in the metro area, or a weekend trip not too distant.

Dave Peters and **Randy Strobel** are organizing a “**Sand and Sandstone**” three-day field trip on **Saturday, Sept 7 through Monday, Sept 9** to examine sand and sandstone formations of east central Minnesota and northwestern Wisconsin. The locations are within 3 hours of the Twin Cities. The start and end times of the trip will be set so that participants can travel from the Twin Cities Saturday morning and return Monday evening. Participants can join for only selected days if that fits their schedules better. The trip will be priced to cover entrance fees and honoraria for the leaders. GSM members have already been contacted to determine interest. Around **60 persons** have expressed interest. Further details will be sent only to those who expressed interest.

Day 1 (afternoon): Led by GSM’s Randy Strobel in the **Sandstone, MN** area. First, we will visit a historic sandstone quarry at Robinson Park on the Kettle River. We will then drive 5 miles to Banning State Park, where we will hike the Quarry Loop, Hells Gate, and Wolf Creek Falls trails (about 3.5 miles total), where we will observe a large historic sandstone quarry.

Day 2: Led by Tom Fitz of Northland College in Ashland, WI. We will observe **Amnicon Falls** near Lake Superior and the **Namekagon Barrens Wildlife Area** near Minong, WI. This day will feature an examination of evidence of the 1.1-billion-year-old Midcontinent Rift, subsequent sandstone formation in the Lake Superior basin and then the vast belt of outwash sands left across northwestern Wisconsin by recent glaciation.

Day 3 (morning): Led by Lauren Finch at **Crex Meadows Wildlife Area** near Grantsburg, WI. This day will feature an examination of the human history, disturbance, reclamation and management of that portion of the northwestern Wisconsin sands.

Randy Strobel has tentative plans for a field trip to the **Driftless Area** in the vicinity of the Minnesota, Wisconsin, and Iowa juncture. Dates have not yet been set, but Randy is looking at early October. GSM members will be informed as this field trip develops.

Dave Wilhelm will organize a tour of the St. **Anthony Falls Laboratory** and its varied experiments in late fall 2019, assuming sufficient interest. (A tour planned for April was cancelled, due to insufficient attendees.) See reports of previous tours in the Spring 2015 and May 2017 Newsletters.

Dave McGill is still looking into a field trip to Switzerland, but his current thinking is to do a scouting trip in 2020 and the actual trip in 2021.

While not a GSM field trip, I did send info to members about a Michigan Tech University field trip to **Isle Royale** that Bill Rose and Erika Vye are leading in June. This is the same trip that about 2 dozen GSM members, including myself, have taken over the past 2 years.

Attachment R
Video Library Bd Report May 2019
Submitted by Dave W

Video Library Activity **01-MAR-2019 through 16-MAY-2019**

New VL members: 3 (Ann Brown, Katherine Elke, Robert Palmer)

Rentals: 33 (5 lectures)

Purchases: 12 videos for \$178.87 from PBS (Also \$9.08 for supplies.)

Donations: 0

Total Titles: 331

New reviews: 7 (Deborah)

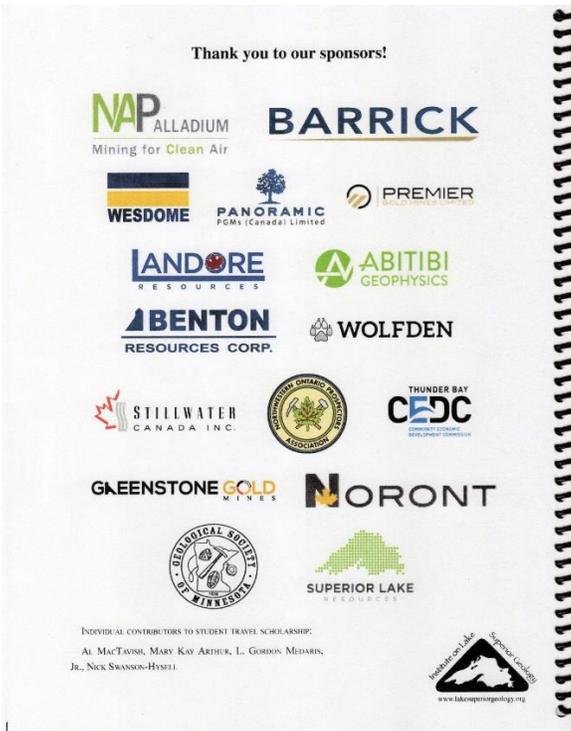
Finances:

\$35 deposited on 20-MAY-2019

\$12 cash on hand

Attachment S

ILSG Sponsors
Submitted by Dave W



Respectfully Submitted
Dave Kelso
GSM Secretary