

# Approved Minutes

## Board Meeting of the Geological Society of Minnesota, 12-NOV-2020 (Compiled by Dave Kelso)

### I. **Opening and Welcome:** The meeting held by video conference at 7:00 P.M.

Notes:

- A. Meeting held by video conference due to COVID-19 pandemic.
- B. Minutes for the August 2020 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 so by the date set by the Secretary.
- C. Review and agree on the agenda for 12-NOV – All
  - 1. The Agenda was agreed upon.
- D. Future Board Meetings (check your calendars):
  - 1. 11-FEB-2021
  - 2. 13-MAY-2021
- E. Board Status – Dave W
  - 1. Current Board membership.

a) Patrick Pfundstein	Jan 1, 2020 to Dec 31, 2023
b) John Westgaard	Jan 1, 2020 to Dec 31, 2023
c) Wolf Bielefeld	Jan 1, 2019 to Dec 31, 2022
d) Roxy (Knuttila) Janezich	Jan 1, 2019 to Dec 31, 2022
e) Frank Janezich	Jan 1, 2019 to Dec 31, 2022
f) Joe Newberg	Jan 1, 2018 to Dec 31, 2021
g) Dave Kelso	Jan 1, 2018 to Dec 31, 2021
h) Deborah Naffziger	Jan 1, 2017 to Dec 31, 2020
i) Dave Wilhelm	Jan 1, 2017 to Dec 31, 2020

(1) Board members serve for a two-year term and are eligible to serve for two terms. Officers serve for a one-year term.
  - 2. Elected Board membership.

a) Pete Hesse	Jan 1, 2021 to Dec 31, 2024
b) Nancy Jannik	Jan 1, 2021 to Dec 31, 2024
  - 3. Current Officers.
    - a) President – Dave Wilhelm
    - b) Vice President – Deborah Naffziger
    - c) Treasurer – Dave Kelso
    - d) Secretary – Dave Kelso
  - 4. Board membership for 2021.
    - a) Due to term limits, Dave W and Deborah are leaving the Board on Dec 31, 2020. Thank you for your most recent four years of Board service.
    - b) Pete Hesse and Nancy Jannik were elected to the Board by e-mail ballot of the GSM membership, in lieu of Annual Meeting. Their terms start Jan. 1, 2021.

- c) First terms for Wolf, Roxy, & Frank end December 31, 2020. They were re-elected to second terms by e-mail ballot. Their second terms start Jan. 1, 2021.
  - 5. Dave W will order name badges for new Board members. Name badge needed for anyone else.
    - a) Dave will also order badges for Joel & Roxy.
- F. Board Members in attendance: Patrick Pfundstein, Wolf Bielefeld, Roxy (Knuttila) Janezich, Frank Janezich, Joe Newberg, Dave Kelso, Deborah Naffziger (via phone), Dave Wilhelm.
- G. Non-Board Members in attendance: Nancy Jannik (newly elected member), Pete Hesse (newly elected member), Mary Helen Inskeep (via phone), Joel Renner, Steve Erickson.

## II. **Agenda items for consideration by the Board.**

- A. Treasurer's report – Dave K/Deborah
  - 1. Financial Report (Dave K supplied written reports)
    - a) Reports for Income, Expenses and Cash Balances were displayed and discussed.
  - 2. Dave K statement detailing investment of \$5,000 with RBC Wealth Management, as directed by the Board at August 2019 meeting (Is this part of Cash Balances report?)
    - a) Yes, and all "blank cells" now contain entries.
  - 3. Board member review of finances – Deborah
    - a) Deborah reported that the bank statements and checkbook register are in order. Deborah stated that she would be willing to continue this review, as a non-Board Member, if the Board agrees. The Board did agree.
  - 4. Besides Board members (current and elected), to whom should the Treasurer send financial reports?
    - a) Dave K has been distributing financial reports to Board Members only but recommends that a wider distribution be considered. Dave W will compile a list of members to receive financial reports.
- B. GSM website – Alan
  - 1. Joanie Furlong is backup webmaster for when Alan is unavailable.
  - 2. Alan to supply written report on website upkeep and usage.
    - a) No report submitted.
- C. Financial reports & other non-public info on the GSM website – Alan
  - 1. Alan has developed a password-protected area on the GSM website in which non-public documents (not including background checks) should be stored and to which Board members have access.
    - a) Dave K indicated that the Treasurer's access works o.k. with no problems accessing and uploading documents.

2. Dave K reported that all current and historical financial documents have been posted to the protected area of the website.
  - a) In addition to historical financial documents, historical Board Minutes have been posted.
- D. Long range plan for utilizing GSM funds - Theresa
  1. Nothing to report this quarter.
- E. Election of officers for 2021. (Both outgoing and incoming Board members eligible to vote.)
  1. After much discussion, Joe Newberg was nominated for President and Patrick Pfundstein was nominated for Vice-President. Joe and Pat shared concerns with their time commitment and availability for the first few months of next year. Therefore, it was proposed that some of the duties of both President and Vice-President could be shared and/or distributed elsewhere where appropriate. Deborah offered to make the announcements at the lectures if the President/Vice-President are not available. Dave W offered to interact and help out wherever he can.
  2. Joe and Pat agreed that this could work out and agreed to accept the nominations.
  3. **M/S/P (Wolf/Deborah) to elect Joe Newberg as President, Patrick Pfundstein as Vice-President, and Dave Kelso as Treasurer/Secretary. The vote was unanimous.**
- F. Lectures and labs – Steve/Dave W
  1. As decided at July meeting, all fall lectures are to be via online webinars. Fall banquet and winter lab will not occur.
    - a) To be discussed later.
  2. We must decide format of winter/spring lectures. We can defer possibility of Spring Banquet until Feb 2021.
    - a) Will ~~probably~~ be virtual through Apr 2021.
  3. Topic and presenter not yet determined for Feb 1. Steve to report of progress in filling this.
    - a) Working on this. Even after we can have live lectures, some thought should be given to one or two virtual lectures per semester, or other time frame, from other locations around the country. The Board was in favor of this and will discuss it later.
  4. Dave W supplied written report on lecture attendance. Summary 2020: 4 lectures, 270 total attendance, 68 average attendance, 12 (4%) non-members. Summary 2019-2020: 10 lectures, 863 total attendance, 86 average attendance (excludes lab), 63 (7%) new.
    - a) See “GSM Lecture Attendance” attached to these minutes.
  5. Prior to each webinar, active GSM members with e-mail addresses are e-mailed instructions, the Zoom link, and related information needed to participate in a GSM lecture. This link is not included on the GSM web site; instead, interested persons are asked to register to get that information; registration instructions are on the website.

6. For those presenters who authorize, GSM lectures are recorded and made available through Zoom (for one year only); the President e-mails the link to all active members and to non-members who registered. We need to discuss longer retention of these, perhaps on YouTube and/or on DVD. Also, should links to the recordings be posted on our website?
    - a) Patrick will look in to setting up a YouTube channel to broadcast the virtual lectures and will serve as the “moderator”.
    - b) Discussed whether virtual lectures should be preserved by downloading them to DVD to be included in our Video Library. In general, the Board thought this would be a good idea and Dave Kelso will work out the details with Randy to determine if this can be done.
- G. Status of lecture video recording and distribution – Joe W/Dave K
1. This section applies only to recording of in-person lectures.
  2. Video team consists of Joe W (chair), Dick, & Deborah. Deborah received rudimentary instruction during 11-Nov-2019 lecture.
  3. Dave K offered months ago to process the recordings. On Nov 3, Joe W said he is copying all the recordings to a large thumb drive and will send to Dave K later in the week. On Nov 11, Joe W reported: “While I am behind, I completed the downloads of all the files to flash drives this morning. Took four drives to get it all. They won’t be going out until tomorrow.” After Dave K receives these, he should supply to the Board a written report on which lectures (dates & titles) have been recorded, and which of those have completed editing.
  4. Dave K: I created an edited version of the GSM lecture for Feb 3, 2020 (Harvey). I have worked with this lecture several times contemplating the best quality and added features such as including a brief display of the GSM logo, an introductory statement, and an introduction. What I have concluded is that quality is the best approach, so I ended up not adding anything to the video and keeping all the other information on the DVD jacket and the DVD itself. Seems to work o.k. I can briefly outline the process I used if you would like to see it. Dave W: The case and the disc look good – scanned and sent to Board. Was able to play the disc with no problems. The GSM logo does appear briefly at start of recording.
    - a) Dave K stated that the GSM logo will be added to the videos upon final editing.
  5. Joe W: I owned two tripods. What I would consider my good one broke and we are now using my lesser tripod. GSM may want to buy one. Here appears to be a good one that can do more than basic while not being costly. I have Amazon prime so I can get free shipping. ~\$40 (I removed the link to Amazon from the minutes – Dave K).
    - a) The Board recommended that we hold off on the tripod for now and deal with it when the need occurs.

6. Consider availability & process for member access to recordings. (Dave W has received many requests for these; we need to make this resource available.)

#### H. Membership– Joanie

1. Joanie reports: We have 153 memberships that are up-to-date. 114 are up for renewal next year, 2021. 30 for 2022, and 9 are not due until 2023. Three are life memberships. There are 10 new membership in 2020. Altogether, there 236 are "active" memberships, which comprise the e-mail list. Besides the 153, these include 37 2019 memberships (who are on a courtesy year) and 43 memberships that are still due to renew this year, 2020. Joanie will soon send the 2019 members a message that their membership is being discontinued and change them from active to inactive, as she has done in the past. This removes them from our e-mail list.
  - a) The Board did not have any issues with keeping people on the active e-mail list for a one-year period.
2. A few other organizations have given members a free "covid" year. Does GSM want to do that? That would entail Joanie sending emails depending on year of renewal and extend their time - which she volunteered to do. There would be some cost as some of those members get a copy of newsletter mailed.
  - a) The Board decided not to provide a free "COVID-19" year of membership, since we are doing a good job of providing lectures, etc. for our members.
3. Should Joanie produce and mail a printed member directory this year? Joanie estimates cost would be \$350 for production and mailing.
  - a) The Board decided that Joanie should produce a printed membership directory as in past years, even though the cost will be higher due to more postage. Joanie of course decides when you want to produce this. Joanie to send the bills to Dave K when she has them; he will reimburse.

#### I. Newsletter –Kate/Mark

1. Kate Clover, Mark Ryan, Harvey Thorleifson (MGS), and Rich Lively (MGS) continue as Newsletter editors. They are able to produce the Newsletter in spite of the COVID-19 pandemic, which allows at least one aspect of GSM activities to proceed as normal.
2. November 2020 Newsletter is in progress.
3. The winter/spring lecture schedule will be included in the November Newsletter.
4. Our policy is to post a Newsletter to the website when the next Newsletter is released. It is a member perk to get the Newsletter immediately.

#### J. State Fair

1. Dan resigned in October 2019 as State Fair Committee chair; we need a new person to fill that role. Anyone, preferably someone currently on the

committee, ready to step up? This person need not be a member of the GSM Board. Dan will continue with the committee to advise the new chair. We also need a location to store the State Fair equipment, not necessarily the home of the State Fair chair. See item K below.

2. Dan has received and signed the 2021 GSM State Fair "wish to participate" form (attached). This reserves our booth place in the education building.
  - a) Please see "2021 State Fair Participation" attached to these minutes.
  - b) A question was raised as to whether we have paid anything toward next year's state fair. Dave K has not made any payment.

K. Consider rental of storage unit for State Fair materials

1. See PDF reports supplied by Mary Helen. Mary Helen's comments: I've finally had time to finish the subsequent research on smaller storage spaces for your deliberation. Most of them stated that the prices quoted today (which I've annotated in \*maroon\* in the PDFs, while the text in black is old information I didn't bother to re-verify since we're focusing on a smaller unit now) are very much subject to change, or could change within a couple of weeks. Availability this season is \*not\* necessarily following the usual "more open in autumn" rule, due to the pandemic's disruption of scheduling for students and families. The data is in 2 pages of PDF; I didn't re-send the dimension requirements page since you already have it (we're now needing Dan J.'s state fair booth space requirements, but not Dave W.'s, rock space requirements, last I heard).
  - a) See "Storage Area Prices 1" and "Storage Area Prices 2" attached to these minutes.
    - (1) **M/S/P (Deborah/Joe N) to rent the storage space at the Transfer Road site.**
    - (2) The space will be 5x10 ft and will cost approximately \$45 per month.
    - (3) Dave W will talk to Dan J about getting supplies to the storage space. Joe N indicated that he would be available to help.
2. Dave W decided he can keep rock-box supplies in his garage indefinitely to reduce rental costs to GSM.
3. John W. has offered no-longer-needed shelving for our use. Dan: The plastic shelves I already have are enough for the State Fair stuff. If you wish to pile the educational rocks that you store in your garage on shelves, I recommend buying new steel shelves.

L. Conferences

1. Live geology conferences have been cancelled indefinitely due to COVID-19.
  - a) We anticipate that this will continue next year.
2. Dave W, as GSM President, continues to inform the GSM membership of online conferences, webinars, and other opportunities that might interest them. Dave has gotten much favorable feedback for doing this. Dave is willing to continue this after he is no longer President.

M. Field Trip plans and feedback – Dave W

1. Kate led two editions of a driving/hiking trip this September/October to explore Platteville limestone in the Twin Cities. Deborah contributed an article for the November Newsletter. Kate needs reimbursement for printing costs.
  2. For the second field trip, Kate purchased a portable PA system with Bluetooth for \$139.16 (see attachment), as current equipment proved unsatisfactory. This equipment worked well. Board should consider acquiring that from Kate and reimbursing her.
    - a) See "PA System Proposed for GSM" attached to these minutes.
    - b) **M/S/P (Dave K/Deborah) to purchase the PA system for \$139.16.** Dave K will send a check to Kate.
  3. Dave K: I have found a number of GSM Field Trip Info documents from 1995 to 2000. The documents were originally created in a very old version of Microsoft Word. Therefore, I "saved" them in the current Word version and attached them for your use. (Dave W has yet to sort through these.)
  4. Patrick volunteered to do a Minnehaha Falls field trip in the Spring.
- N. Social gatherings
1. Randy is hosting Zoom meetings on non-lecture Monday nights for interested GSM members. About 10-20 participate each time. Dave mentioned this opportunity in the August & November Newsletters.
  2. No plans for holiday gathering this year due to COVID-19.
- O. Video Library – Dave W
1. No rental activity to report, due to suspension of in-person lectures.
  2. We have received two (?) new VL lifetime memberships.
- P. GSM Marker Survey project – Becky
1. Becky to supply written report.
    - a) No report was submitted.
- Q. Minnehaha marker replacement status – Kate/Patrick/Dick
1. Patrick supplied written report.
    - a) Please see "Mhaha Panel Sm" attached to these minutes. Patrick indicated that the Marker may be installed this spring and he intends to do a tour.
- R. GSM scholarships and grants – Dave W
1. Nothing to report.
- S. GSM Rock Hammer awards – Dave W
1. Next rock hammer awards will be considered during 2021.
  2. In the past, approximate cost of the hammers is \$26 each.
- T. GSM baseball caps and t-shirts for members – Joe N
1. Have all t-shirts been delivered?
    - a) Yes
  2. Possibility of doing this again after in-person lectures resume. Consider tacking on a "postage & handling" fee for those not delivered in person.
- U. "Ask GSM" activity – Theresa

1. Theresa supplied written report.
  - a) See "GSM Questions Update" attached to these minutes.
- V. GSM Student Outreach – Joel Renner
  1. No activity since the last report.
  2. Joel suggests that Student Outreach be suspended for at least the remainder of 2020. If the Board agrees Joel will notify Jeff Thole at Macalester.
    - a) This has basically been done but Joel will touch base with Jeff.
  3. Earmarked contribution: GSM member Tom Schoenecker plans to do the following: a) arrange yearly school student outreach visits to a school in Excelsior, and b) make an earmarked contribution to GSM to pay for such for as long as the funds last. No update.
- W. PO Box Status
  1. President, Treasurer, and Membership Chair have keys.
  2. Box is being checked infrequently (every few weeks) during fall, since the PO Box is less convenient without live lectures. Dozens of membership applications were received in September/October at start of new membership year. Each keyholder should inform the others when they check the box, so we know how long it has been since it was checked.
- X. GSM Operations Guide update and review
  1. Version 11.0 dated January 29, 2020 distributed by e-mail to Board members, chairpersons, and other members for whom it might be useful. No updates subsequent to that.
- Y. In-memoriam contributions, if any – Theresa/Dave K
  1. No contributions during past quarter.
- Z. 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. – no progress. Dave has decided to continue storing these in his garage indefinitely so, GSM doesn't incur the additional cost of paid storage for these.
  2. Materials (field trip itineraries, notebooks, photos) were donated by the family of Judy Hamilton. Dave W does not expect more material, as his contact has also passed away.
    - a) Dave W has made initial inventory November 2018. In May 2020, Dave W took another quick look. There is State Fair info back to 1998, field trip info to 1989, and membership directories to 1990.
    - b) Most newsletters to 1984, some of which we might be missing; need to compare with what is in Harvey's archive; found at least one Newsletter (Winter 1988-89) not in our archive.
    - c) Theresa has volunteered to assist inventory.
  3. Possible donation of rock collection and/or chemistry glassware by family of deceased member Dave Broberg in early 2020 – no further contact as of August 2020.



4. On May 9, Dave W received donation of rock specimens and old geology manuals by Amy Okaya (collected by her late husband); Dave was storing in garage for interim. In July, since GSM had no immediate plans for the specimens and since rock shops were reopening, Amy took the specimens back so she could take them around for evaluation. No further word on these.

AA. New topics

1. (Maybe should be; none offered)

BB. Goals – Dave W

1. Install new big-picture marker at Minnehaha Falls during 2020.
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 2020.
4. Develop video recording crew and optimize the equipment and processes; have first video recording of a lecture available to members in 2020. Note: for online lectures, recording is done via Zoom and videos made available through Zoom for those presenters who consent.
5. Others goals we should add?

CC. Adjournment

1. Steve E stated a big "THANK YOU" to Dave W for his service to the GSM as President and wishes good luck to Joe N in his new role as President. The Board agreed.
2. **M/S/P (Pete/Joe) to adjourn.**

Attachments:

- A. GSM Lecture Attendance.
- B. 2021 State Fair Participation.
- C. Storage Area Prices 1, and 2.
- D. PA System Proposed for GSM
- E. Mhaha Panel Sm.
- F. GSM Questions Update.

Attachment A  
GSM Lecture Attendance  
Submitted by Dave W.

## **GSM Lecture Attendance**

### **2020-2021**

**Summary: 4 lectures, 270 total attendance, 68 average attendance, 12 (4%) non-members**

Note: During 2020-21, lectures are held by Zoom webinar. The attendance count is the number of devices that have joined. Since some devices have more than one person watching, the

actual attendance is larger than the recorded number. Starting 2020-10-05, we are having devices with more than one person report how many are watching from each. It seems there are about 15-17% more people than devices. The number of persons is in parentheses below.

2020-11-02 57 (63) Geological and Tectonic Evolution of the Transantarctic Mountains, from Ancient Craton to Recent Enigma (*4 non-members registered; 2 found us on the University of Minnesota's College of Science and Engineering website*)

2020-10-19 49 (58) Neotectonic Fault Reactivation and Landscape Rejuvenation on Norway's Post-glacial Margin (*0 non-members registered*)

2020-10-05 60 (69) Minerals are the Future (*3 non-members registered*)

2020-09-21 71 (~80) How Ancient Iron-Rich Rocks Tell the Story of Minnesota's Oceans (*5 non-members registered*)

## **2019-2020**

**Summary: 10 lectures, 863 total attendance, 86 average attendance (excludes lab), 63 (7%) new**

Note: Final 4 lectures cancelled due to COVID-19 pandemic.

2020-03-02 75 Crossing a Continent: Detrital Zircon Evidence for Mississippian (ca. 330 Ma) Sediment Transport from the Appalachian Mountains to the Grand Canyon and Beyond (*4 new persons – friend; recommended by St. Thomas geology professor*)

2020-02-17 87 Building Australia, the Geology Down Under (*1 new person – spouse of speaker*)

2020-02-08 48 An Exploration of the Minerology and Geochemistry of Gemstones (*Saturday lab; not included in averages*)

2020-02-03 86 Geological Mapping of Our World, How it Works in the Current Era (*6 new persons – state fair, internet, friend*)

**Summary for Fall 2019: 7 lectures, 615 total attendance, 88 average attendance, 52 new**

2019-12-09 38 1) History of the USGS - From John Wesley Powell to Streamgaging; 2) USGS Flood Inundation Mapping Program (*bad weather; 1 new person – state fair, neighbor*)

2019-11-25 131 The Midcontinent Rift System - Almost an Ocean (*6 new persons – state fair, neighbor, web site*)

2019-11-11 76 Natural Archives from Shallow Lakes, Wetlands, and Springs of the Great Basin Show Evidence of Extended Periods of Drought over the Past 6000 Years (*parking issues caused a few not to attend; 15 new persons – all St. Thomas students suggested to attend by their professors*)

2019-10-28 101 Reptilian Giants of South America after the End Cretaceous Mass Extinction (*11 new persons – state fair, neighbor, web site; Science Museum*)

2019-10-14 98 Color in Minerals and Why it is Important (*12 new persons – state fair, friend, web site; related to the presenter; one long-ago member returning*)

2019-09-30 82 Introduction to Alberta Oil Sands Mine Tailings: Management, Regulation, and Research (*2 new persons – state fair, friend*)

2019-09-16 89 The Geology of the Bakken Formation, North Dakota (*fall banquet & annual meeting; 5 new persons – state fair, friend*)



Storage Site Data

Acorn Mini Storage	651-401-7294; 612-314-3111; 612-314-3244. www.acornministorage.com	St. Paul site: 275 N. Sibley Street, zip 55101. Mpls North/ I-94 site: 4652 Lyndale Ave N, zip 55412. Mpls NE/ Lowry site: 2547 5 <sup>th</sup> St. NE, zip 55418	@ StP site: A 5'x10' unit costs \$79/mo.; a 5'x15' unit costs \$99/mo.; a 10'x10' unit costs \$137/mo., but a 10'x12' unit costs \$132/mo.;  @ Mpls I-94 site: A 5'x10' unit costs \$39/mo.; a 5'x15' unit costs \$83/mo.; a 10'x10' unit costs \$71/mo, w/o AC, and a 10'x15' unit costs \$111/mo.  @ Mpls Lowry site: A 5'x10' unit costs \$37/mo.; a 5'x15' unit costs \$49/mo.; a 10'x10' unit costs \$102/mo w/climate control OR \$56/mo. w/o AC; a 10'x12' unit costs \$77/mo. (probably w/o AC).  Prices subject to change unless reserved (max res time b/4 payment is 14 days). EACH comes w/25% off the 1 <sup>st</sup> 3 rent charges BUT a move-in admin fee of \$30.00.
Public Storage	651-968-8585 AND 1-621-359-9779 www.publicstorage.com	2514 Wabash Avenue Saint Paul, zip 55114 AND 631 Transfer Road Saint Paul, zip 55114	@ Wabash site: A 5'x10' unit costs \$84/mo.; a 5'x15' unit costs \$71/mo.; 10'x10' unit is \$73/mo. OR \$84/mo. if on 1 <sup>st</sup> floor (there's a 9' x 10' unit, but it costs more).  @ Transfer site: A 5'x10' unit costs \$44/mo.; 9'x10' unit costs \$94/mo. & a 10'x10' unit costs \$99/mo.; a 10'x15' unit costs \$118/mo., all climate controlled.  1 <sup>st</sup> month's rent is \$1.00. 1-time move-in fee is \$24; red prices are as of today; prices are CHANGEABLE until you reserve unit, and FEW units are available!
7 days/week access (incl. early evenings only, & ends @ 5pm on weekends).			

Storage Site Data

Name of Storage Co.	ph# / website	Address	Avail. Sizes & prices
North Star Mini Storage	651-917-0707 www.northstarministorage.com	2356 University Avenue W. Saint Paul, MN 55114 (near Raymond/Univ. intersection; car, bus & LRT access.)	Unit sizes range from 20-216 sq.ft. A 5'x10' unit costs \$95/mo.; a 6'x10' unit costs \$115/mo.; a 9'x10' unit costs \$145/mo.; a 10'x10' unit costs \$150/mo.; & a 10'x11' space costs \$165/mo.  Offers pre-pay discount: pay 6 mos. at once, get 5% off; pay 12 mos. at once, get 8% off.
Climate controlled, indiv. unit access codes, video cameras, each space alarmed, 7 days/week access (incl. evenings). Got price list in person; mgr. stated that rocks should be put in a 1st-floor storage area. Also owns sites in Minneapolis, Minnetonka, Shoreview, Burnsville, Oakdale & Vadnais Heights, and the prices @ other sites ARE NOT same as for this one. Full Disclosure: This is where I currently rent space, and I'm quite happy w/the hours & service.			
7 <sup>th</sup> Street Storage	651-698-5777 www.7thstreetstorage.com	2060 West 7 <sup>th</sup> Street Saint Paul, MN 55116 (on 7th St. b/tw Montreal & St. Paul Ave's; car & bus [sort of] access.)	Unit sizes range from 25-400sq.ft. & price depends on floor level. A 5'x10' unit ranges from \$108-112/mo.; a 5'x15' unit ranges from \$139-143/mo.; a 10'x10' unit ranges from \$167-174/mo. (on spec. \$119 NOW); a 10'x15' unit ranges from \$199-219/mo.  Offers pre-pay discount: prepay 11 mos., get 12 <sup>th</sup> month free. Only has the one location.
Temperature controlled, indiv. access codes, video security system. Shelving rentable (but buying our own may be cheaper in the long run). 7 days/week access (incl. evenings). Only has the one location.			
Plato Storage (a div. of All Inc., an appliance retailer)	direct: 651-234-0122 (Chris) (can be referred from 651-234-0153 also.) www.platostorage.com	75 Plato Blvd. West Saint Paul, MN 55107 (slightly west of Wabasha/Plato intersection; bus & not far, but route not immediately adjacent.)	A 5'x10' unit costs \$60/mo.; there are no 6'x10' units; a 10'x10' unit costs \$99/mo.; a 10'x20' unit costs \$155/mo., but only the 10x10 is close to our needs. Offers pre-pay discount: get 1 month free on 12-mo. commitment.
Climate controlled, secure & monitored w/digital surveillance; appts needed to deliver & retrieve stuff. ~ 24h in advance; in appliance warehouse, so staff must help & escort you to unload & move your stuff; they have electric pallet jacks & forklifts. Access hrs are M-F 8:30a-5:00p, Sat 9:00a-12:00n; only has the one location.			

Attachment D  
PA System Proposed for GSM  
Submitted by Kate C

PA System Proposed for GSM

[Your Account](#) > [Your Orders](#)


## Your Orders

**Orders**   [Buy Again](#)   [Open Orders](#)   [Digital Orders](#)   [Cancelled Orders](#)

3 orders placed in past 3 months

ORDER PLACED	TOTAL	SHIP TO
September 28, 2020	\$139.16	<span style="border: 1px solid #ccc; padding: 2px;">Catherine Clover</span>

**Delivered Sep 30, 2020**



[W WINBRIDGE Portable PA Speaker Sound System with Bluetooth Headset Microphone 30W Echo, Wireless Loudspeaker & Voice Amplifier Rechargeable, Small Size, Handy and Multi-functional H5](#)

Sold by: [WinBridge](#)

Serial Numbers:  
AZ:D3XHRARJABD33NRZSK6FY7NROM


Return eligible through Oct 30, 2020

**\$129.00**

Buy it againView your item

[Archive order](#)

Attachment E  
Mhaha Panel Sm  
Submitted by Patrick P



**Minnehaha Regional Park**

# Waterfall Geology

**Overview**


Nearby, Minnehaha Falls plunges 53 feet into a gorge on the creek's final mile-long journey to the Mississippi River. The waterfall appears permanent, but it is part of an ever-changing landscape.

Waterfalls form where a stream tumbles over a hard rock ledge and erodes softer underlying rock. This erosion causes the unsupported ledge to collapse and the falls to move upstream.

Waterfalls can end as well. This happens if the water supply gets cut off, or if the geology changes, and there is no more hard rock ledge for the water to cascade over.

All of these stages of a waterfall's existence have happened in the Twin Cities area, and most you can see here in Minnehaha Park.

**Find it in Minnehaha Park**



**Why do Waterfalls Move?**

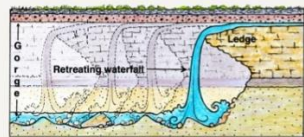
Waterfalls move upstream where a stream flows over a hard rock ledge and erodes the softer rock below. The process undercuts the ledge and leaves it unsupported—just waiting to collapse and to create a new ledge. As this process repeats, waterfalls move upstream and carve a steep-sided gorge.

Because Minnehaha Falls is in its natural state, not stabilized with concrete, its rock ledge will eventually collapse again. In total, Minnehaha Falls has retreated upstream about 700 feet from where it started near Bridge #2.

**Key to Dakota Names**

**Abote** (Abote): Where two waters come together (not used for Minnehaha)  
**Mniwaga**: Falling water (Minnehaha Falls)  
**Mniwaka**: River of the Falls (Mississippi)  
**shu Sate**: Waters reflecting the sky  
**Owamniyomoni**: Turbulent water, curling water, whirlpool (St. Anthony Falls)  
**Wakpa Chidawa**: Little River (Minnehaha Creek)  
**Wakpa**: River

**Sediment and Rock Layers in Minnehaha Park**



**Glacial Sediments**  
 Clay, silt, sand, and gravel cover the limestone.

**Platteville Formation**  
 Hard limestone forms the ledge and is yellow-gray.

**Stenswood Formation**  
 Shale is faky and gray-green.

**Saint Peter Sandstone**  
 The sandstone is loosely cemented, white to light gray or iron-stained and orange.

**Rock Layers Erode — Some More Easily Than Others**

This sign made possible through the generous support of the Geological Society of Minnesota

Attachment F  
GSM Questions Update  
Submitted by Theresa

GSMQuestionsUpdate2/6/2020 – 11/9/2020  
 Questions

<http://gsmmn.mngeology.net/contact>.

We have also received our copy of the “Minnesota Mineral Club’s Newsletter” through this site.

1. Geologists within the society: Student looking to connect: 11/3/2020:M.V.W.:“As a member of the geological society I thought it would be interesting and helpful for society like me to be able to meet graduated geologists that are also in the society. I am sure both parties would benefit from connections being made, and the students will benefit from having questions answered and hearing about what it's like to work in geology from a current geologist.” (An interesting copy and paste, Dave. W. & Steve E. addressed this).
2. Nov 2 Lecture: 11/2/2020:A.R.B.would like to view the Lecture on November 2. (Dave W. took care of this).
3. Nov 2 Lecture: 11/2/2020: R.H. would like to view the Lecture on November 2. (Dave W. took care of this).
4. Nov 2 Lecture: 10/28/2020:W.S.would like to view the Lecture on November 2 with two other family members. They requested the need for CEU's. (Dave W. took care of this).
5. Nov 2 Lecture: 10/28/2020:S.T. would like to view the Lecture on November 2. He found this lecture by seeing it listed as an event on the University of Minnesota's College of Science and Engineering website. (Dave W. took care of this).
6. September 21 lecture: 10/24/2020:H.C. would like to review the Lecture of September 21. (Dave W. responded).
7. Oct 19 Lecture: 10/18/2020:D.P. requested sign in code for virtual lecture. (Dave W. Responded).
8. Book Recommendation:10/16/2020: D.B. Interested in finding a book on agate hunting. (Diane L. & David W. Responded to this question).
9. UMN Hort Sci Seminar: 9/9/2020:K.B. Interested in hearing about the geological makeup of MN and what that means for growing the plants they grow here. Is there someone on your staff who could speak about that? (Harvey offered to do this).
10. Waterfalls on the Mississippi River: 7/27/2020:E.H. I am a volunteer for the Mississippi National River and Recreation Area researching waterfalls on the Mississippi River. In particular, we are questioning how best to describe the St. Anthony Falls. (Both Kate C. and Patrick P. answered and offered their expert opinions on this one).
11. Stone vs. fossilized skull (reptile?) 6/25/20:P.C. was wondering where she could take a rock that she strongly suspects is a fossilized skull to have it properly identified. (This was sent by Steve E. to Harvey T., and Harvey offered to assist).
12. Rock Identification: 4/9/2020:A.T. has a boulder in a rockpile located in Sherburne County that has some very interesting marks on its surface. (Again, the email came up as possible phishing or spam, and I could not verify the email address or person as legit).

13. Possible meteorite found: 4/1/2020:J.M., her husband found a possible meteorite and wanted to have it checked out. We usually send these things to Macalester/Jeff Thole, but Macalester was closed.
14. Information from a prior seminar: 3/6/2020:S.G. Wanted information on a talk from 1/28/2020, The Nitrate Contamination Problem in Southeastern Minnesota: The Importance of Geologic Controls. (Came up as possible phishing or spam, and I could not verify the email address or person as legit).
15. Looking for a volunteer to visit preschool: 3/2/220: M.B. Director of a Preschool program in St. Paul was looking for a GSM Volunteer or educator to talk to her preschool classroom. (Did not pursue because COVID-19 caused the cancellation of the school).