

## Minnesota Center for Mineral Resource Education

Meeting Minutes for Friday, December 2, 2016, 830 AM at DNR in St Paul

### Attendees

At DNR: Hannah Friedrich, Dennis Martin, Harvey Thorleifson

By Phone: George Hudak, Kelsey Johnson, Julie Marinucci (for Julie Lucas), Jim Miller, Dean Moosavi

Unable to attend: Brian Allison, Fred Corrigan, Mike Hultgren, David Ulrich

- Agenda agreed to as circulated, with added items press releases, and Board election
- Approval of Minutes for September 9, 2016 – motion to approve by Kelsey, 2nd by Dennis, motion carried

### Report of the Chair

- Hannah filled in for Mike; Hannah welcomed everyone, and thanked everyone for their effort

### Report of Vice Chair – Administration

- Hannah filled in for Fred, who was unable to attend; Hannah reported that our finances are in good order
- A financial report had been sent by email that morning, including a list of contributors
- Julie noted a need to clarify which year the SME grant applied to; there had been a mix-up with the SME check; Julie & Harvey will follow up with SME; the grant from Arcelor had recently been received

### Report of Vice Chair –Finance

- Kelsey reported that the fundraising letter had recently been sent; she is optimistic

### Report of the Vice Chair - Operations

- Save-the-date email out
- Happily working with David Marshall at Vermilion Community College; Lodging, session rooms, labs, GIS room booked; Meals all set
- Excellent progress on confirming speakers – early request this year
- Jim will give a featured talk on earth science & where stuff comes from, celebrating the 20<sup>th</sup> MMEW!
- Dean noted a desirable link to current discussion of standards & teacher professional development
- Dean will Chair the GSA Education Committee next year; sees increased role for MMEW-type activities
- GSA in Boulder might be interested in observing MMEW; this is OK with Board
- Discussion of Dean's superb talk at GSA, co-authored with Hannah; paper in development; ppt on web site
- Excellent progress on field trip plans reported by George and Jim
- Half day at Vermilion district; Tower-Soudan; volcanics
- Dennis suggested a stop at naturally-occurring sulfide outcrop ¼ mile from Tower; road building implications
- Underground at Soudan; talking to Jim Essig; 2 or 3 groups due to size of lift; walking tour takes too long
- Same volcanoclastic unit seen in road cut will be seen in the mine
- Classic iron formation outcrop, pillow lava, sheet flow; Pillow Rock
- 2<sup>nd</sup> day, Duluth Complex, 4 stops, old dimension stone quarry; Biwabik quarry a bit far
- try to visit Cu/Ni property to see core, ideally Twin; willingness to be discussed
- 2<sup>nd</sup> day a bit shorter; end mid-PM; lots of options
- Julie suggested Northshore; Jim said great idea, should have thought of that; Julie can help
- Could run two buses separately, and flip; depends on numbers; Very nice to see a working drill last time
- Renewed interest in Au; not enough time to go to Mud Creek
- Hannah can help book buses, although George and Jim have done this
- Tuesday evening picnic to be confirmed – need evening activity
- Could we do Soudan in the evening? Overtime might be a problem; Need to look at what we did in 2009
- George will talk to Jim Essig; Dean notes we might arrive a bit too late
- People can do touristy things like wolf center or bear center Wednesday evening
- Julie mentioned the headframe, Iron Mike across from Grand Ely Lodge – great idea
- Need to explore the drainage divide and the cultural divide
- Hannah appreciates Julie's help in communicating with teachers in the region; SME email list
- Hannah described MMEW promotion at hugely successful NSTA booth in Minneapolis
- Dean noted importance of polling teachers on how they learned about MMEW

### Other Business

- Dennis noted that news release could perhaps accompany MMEW – announce the activity – great idea
- Might run on, for example, Duluth TV – Renée Passal – This Week in Mining – Letitia might be able to help
- Discussion on who registers for MMEW – it is for active teachers – limit, two buses
- Board Election: Moved by Harvey, 2<sup>nd</sup> by Dennis, that we reelect the 2016 Board for 2017, and that vacancies be filled at the first 2017 meeting, motion carried
- Discussion of maybe adding longer, more in-depth options to workshop program; maybe a 5<sup>th</sup> track
- Focus needs to be on minerals, mineral resources, mining, source of materials for society
- Hannah will look into having a table at MESTA, maybe an MMEW talk at MESTA – Dean will talk to Cheryl
- Potential link to Earth Science Week discussed; social media and more

### Next meeting: *Doodle poll to come*

Meeting adjourned; Minutes prepared by Harvey Thorleifson