

Michigan Geological Survey Report 6 from the K-12 Outreach Director, Peter Voice [Jan. 24, 2014]

New Items:

1. Jan. 3. Signed up to volunteer to be an observer at the WMU Medallion Scholarship events Jan. 27 and Feb. 1.
2. Jan.13-14. Continued working on Module Metrics Plots and summary statistics
3. Jan. 13. Revised the DTE Energy Foundation Funding Support White Letter prior to meeting with Jennifer Callahan
4. Jan. 13. Submitted abstract to the North Central GSA Section Meeting titled "Expanding the Impact of the Michigan Geological Survey's CoreKids Program: Productive Partnerships with non-profits and regional amateur geology groups."
5. Jan. 14. Met with Jennifer Callahan, Mohamed Sultan and Linda Harrison to discuss the WMU Foundation's support of CoreKids, Funding Opportunities from DTE Energy Foundation and other area Foundations.
6. Jan. 15. Working on scheduling an activity for the Walled Lake Girl Scout Troup.
7. Jan. 15. Generated CoreKids Summary Document for the Department of Geosciences Faculty Meeting.
8. Jan. 15. Attended WMU Medallion Scholarship Observer Training.
9. Jan. 16. Submitted Booth application to Eric Wildfang (MI DEQ) for the DEQ Earth Day Event.
10. Jan. 16. Worked with Dave Chapman to schedule a test run of the Shale Energy Module with his class at Okemos High School.
11. Jan. 16. Generated a CoreKids section for the Michigan Geological Survey's Annual Report.
12. Jan. 16. Kathy Wright forwarded me an email from Shaun Davis requesting information about the potential for CoreKids to come out to his school. I sent him information on the program and asked for more details about his school.
13. Jan. 16. Heather Petcovic contacted me about one of her Earth Science Teaching Majors, Zakk Waber who is interested in working with CoreKids. I am arranging to meet with him to discuss the program and what his responsibilities would be.
14. Jan. 16. Exchanged emails with Suzanne Lutwick, the new Grant Writer at the WMU Foundation. We are working to arrange a meeting with her and MGRRE personnel.
15. Jan. 15-16. Linda Harrison reached out to the Keystone Science School to see if we could potentially team up again. I have tentatively scheduled a skype meeting with David Miller on Jan. 28.
16. Jan. 16. Jenny Trout led a tour of 4 adults and 3 children through MGRRE. Tour included activities from the Michigan Geologic History Module. Sue Gardner called MGRRE and arranged the tour with Jenny.
17. Jan. 17. Met with Ann Gilchrist to organize logistics for the 3 events over the next week as well as to organize a plan for the rest of the semester.
18. Jan. 17. Demonstration of the Hydraulic Fracking Module's hands-on activity at MGRRE. Included myself and Ann as well as 8 observers. With a few suggestions, we plan on doing one more test run before trying it out in a classroom.
19. Jan. 17. Jeff Barney forwarded me an outreach event request from Linda Dull at the Coldwater Branch of the Branch District Library. They would like to have at least one day of scheduled CoreKids activities as part of their Fizz, Boom, Read program. I have contacted Linda and am waiting for her reply.
20. Jan. 17. Shaun Davis from Thornapple Kellogg Middle School, Middleville, Barry County replied and would like to schedule 2 days of visits from CoreKids staff. Working on scheduling those events.

21. Jan. 17. Contacted Dave Chapman with the results of the fracking demonstration and have tentatively requested a classroom visit to test the demonstration on either Feb. 20 or Feb. 27.
22. Jan. 17. Worked on Annual Report materials that John Yellich sent me.
23. Jan. 17. Met with Zakk Waber, an Earth Science Teaching Major. Zakk was recommended by Heather Petcovic. I have hired him to fill in spots that Ann or I cannot make it to.
24. Jan. 18. STEM-ulating Career Day Event at Western's Student Rec. Center. We did a modified version of the Michigan Geologic History module. 33 children and 18 adults.
25. Jan. 21-22. Visited Gull Lake Middle School – 135 kids and 2 adults on Tuesday. 120 kids and 4 adults on Wednesday.
26. Jan. 21. Kim Clancy from Gull Lake Middle School discussed the Gull Lake Community Schools Foundation with us. 2014 is their "year of science". They are planning a science-themed 2-day event and Kim invited CoreKids to participate. The event will be held Nov. 7-8 – Science and Engineering Festival of the Sparks Series.
27. Jan. 21. Jason Hunter from Grand Haven Public Schools contacted me – we are still working on scheduling a MGRRE tour for his class. I asked him if we could use his class as an example for Foundations per Jennifer Callahan's "lunch with students" idea from our Jan. 14 meeting.
28. Jan. 21. Contacted Jennifer Callahan to inform her of my attempts to schedule Jason Hunter's class and my opinion that it would be a good class for her idea.
29. Jan. 22. Scheduled a third module with the Gull Lake Middle School – tentatively scheduled for Feb. 25th and 27th. They want to do the Natural Hazards: Volcanoes Module.
30. Jan. 22. Contacted Shada Biabani (Michigan Aggregate Association Outreach Program) and forwarded to her Kim Clancy and Laurie Klok's email addresses and their interest in getting a Aggregate Kit.
31. Jan. 22. Contacted by Jason Hunter – he would be glad to have Foundation Guests tag along with his class. He is waiting on confirmation from his administration and will get back to me with a date in the near future.

Current Totals

Total K- 12 Student Interactions (As of July 2013)	1647
Total Adult Interactions (As of July 2013: Chaperones and teachers at events)	56
WMU Hydrogeology Field Trip; CMU Petroleum Geology Class (College Students); Saudi Arabia Geological Survey Visit; Geology Club	69
Total Teacher Interactions (As of July 2013: MESTA, Other Contacts, Workshop)	120
K.G.M.S. Seminar Series, etc.	27
Cranbrook Institute Dinosaur Festival (all ages)	3330
Kalamazoo Air Zoo Events	12
Gardner Family Visit to MGRRE (4 adults, 3 children)	7

STEM-ulating Career Day, WMU (33 children, 18 adults)	51
<u>Total:</u>	<u>5319</u>

Projected Totals of Upcoming Events

Scheduled School Visits:	846
DEQ Earth Day Festival:	~3,300
K.G.M.S. Annual Show:	~1,500
<u>Total Projected:</u>	<u>5,654</u>
<u>Total Projected + Actual</u>	<u>10,973</u>

a. Past Outreach Events (During Voice Tenure as Director, K-12 Outreach)

- i. July 30th – Cub Scout Group, Kalamazoo MGRRE Tour
- ii. Aug. 5th – WMU Hydrogeology Camp MGRRE Tour
- iii. Aug. 22nd – Lego Robotics League MGRRE Tour (Natural Hazards – Impacts Module)
- iv. Sept. 11-13th – Cranbrook Institute of Science Rouge River Festival (Hydrogeology Module)
- v. Oct. 4-6th – Michigan Earth Science Teacher Association/Michigan Alliance of Environmental and Outdoor Educators Annual Meeting
- vi. Oct. 14th – Loaned Module to Kalamazoo Geological and Mineral Society for a School Visit – Star Elementary, Plainwell
- vii. Oct. 21st – Scheduled School Visit - St. Mary Visitation School, Bryon Center (Michigan Geologic History Module)
- viii. Oct. 25th – Petroleum Geology Class, Central Michigan University – MGRRE Tour
- ix. Oct. 30th – Kalamazoo Reformed Heritage Christian School MGRRE Tour
- x. Nov. 1st – MGRRE Online Education Portal Workshop
- xi. Nov. 1st - Okemos High School Geology Class MGRRE Tour
- xii. Nov. 5th – Saudi Arabia Geological Survey MGRRE Tour
- xiii. Nov. 11th – Scheduled School Visit, Upton Middle School, St. Joseph (Michigan Geologic History Module)
- xiv. Nov. 12th and 14th – Scheduled School Visit, Gull Lake Middle School (Michigan Geologic History Module)
- xv. Nov. 16th – Kalamazoo Geological and Mineral Society Lecture Series – MGRRE talk and tour
- xvi. Nov. 18th – Scheduled School Visit, St. Francis School of Ann Arbor (Michigan Geologic History Module)

- xvii. Nov. 20th – WMU Geology Club Tour
- xviii. Dec. 11th – Scheduled School Visit, St. Francis of Ann Arbor (Natural Hazards – Earthquakes Module)
- xix. Dec. 12th-13th- Scheduled School Visit, Upton Middle School, St. Joseph (Natural Hazards – Earthquakes Module)
- xx. Dec. 26th – Dec. 30th – Cranbrook Institute of Science Fossil Festival (Michigan Fossils Module)
- xxi. Dec. 30th – Kalamazoo Air Zoo Digging Michigan Camp (Michigan Fossils Module)
- xxii. January 18th – WMU STEMulating Career Day (Michigan Geologic History Module)
- xxiii. January 21st – Scheduled School Visit, Gull Lake Middle School (Natural Hazards: Earthquakes Modules)
- xxiv. January 22nd – Scheduled School Visit, Gull Lake Middle School (Natural Hazards: Earthquakes Module)

b. Upcoming Events

- i. February 14th – Scheduled School Visit, Berkshire Middle School
- ii. Feb. 25th and 27th – Scheduled School Visit, Gull Lake Middle School
- iii. March 5th—Scheduled School Visit, Hastings Middle School
- iv. March 6-8-Michigan Science Teachers Association Annual Meeting
- v. April 22-Michigan Dept. of Environmental Quality Earth Day Event
- vi. April 24-25-North-Central GSA Section Meeting
- vii. May 2-4-Kalamazoo Geological and Mineral Society Annual Show

c. Fall Events (Tentative)

- i. Michigan Earth Science Teachers Association Annual Meeting (August, 2014)
- ii. The Cranbrook Institute of Sciences Rouge River Festival (Sept. 9-12)
- iii. Michigan Mineralogical Society Annual Show (Oct. 10-12)
- iv. Gull Lake Community Schools Foundation – Sparks Series, Science and Engineering Fair. Nov. 7-8.

d. Working on scheduling

- i. Grand Haven Public Schools visit to MGRRE
- ii. Grant Public Schools
- iii. Future Kalamazoo Air Zoo Events (likely over Summer 2014)
- iv. Walled Lake Girl Scouts
- v. Okemos High School (Shale Energy Module)
- vi. Coldwater Branch Library of the Branch Library System (Perhaps other branches as well) – Summer 2014 – June-July.
- vii. Thornapple Kellogg Middle School, Middleville – wants two days 6th and 8th graders.