

# Michigan Geological Survey Report 15 from the K-12 Outreach Director, Peter Voice April 15, 2015

## New Items:

1. Nov. 13<sup>th</sup> – old business – scheduled with Linda Harrison a tour of the MGRRE facility for Ralph Stearley's Geology class (Calvin College) for Nov. 18.
2. Nov. 14<sup>th</sup> – presented Report 14 to the Director of the Michigan Geological Survey.
3. Nov. 14<sup>th</sup> – exchanged emails with Brittany Chunn (U of M, Museum of Natural History) about logistics of Nov. 19<sup>th</sup> event.
4. Nov. 14<sup>th</sup> – exchanged emails with Vicki Smith (Western Middle School, Auburn MI) to set up a corekids event in March.
5. Nov. 14<sup>th</sup> – exchanged emails with Sita Karki, asking her to do a few updates to the CoreKids website.
6. Nov. 18<sup>th</sup> – Calvin College Geology class tour at MGRRE was canceled due to inclement weather.
7. Nov. 19<sup>th</sup> – Scheduled CoreKids event – Geology Day, University of Michigan Museum of Natural History. 125 students total (4<sup>th</sup> and 6<sup>th</sup> grade).
8. Nov. 19<sup>th</sup> – exchanged emails with Suzanne Lutwick (WMU Foundation) about the sponsorship letter template.
9. Nov. 21<sup>st</sup> – exchanged emails with DeEtta Crane (Greater Heights Academy) about logistics for the event.
10. Nov. 21<sup>st</sup> – scheduled CoreKids event. Grosse Pointe North Highschool Fossil Day – geared towards grade school and younger kids. 111 kids registered for the event. Ardis Herrold (Organizer of event and teacher at GPN) estimated 200 people total were at the event (children, teachers, parents and GPN students)
11. Nov. 23<sup>rd</sup> – exchanged emails with Maureen Kaczanowski (Southwood Elementary, Kentland, MI) about a scheduled school event at her school.
12. Nov. 23<sup>rd</sup> – exchanged emails with CoreKids staff to make sure I had enough people to cover the Dec. 5<sup>th</sup> Southwood Elementary School visit.
13. Nov. 2<sup>th</sup> – Tom Howe informed me that the MAEP grant application was approved and that CoreKids had been awarded \$2,500 to construct a portable sandbox model. MAEP – Michigan Association of Environmental Professionals.
14. Nov. 29<sup>th</sup> – picked up donation of geologic documents and samples from Tim Brock (Brock Engineering) for MGRRE – transported them to Kalamazoo.
15. Dec. 1<sup>st</sup> – exchanged emails with Tom Howe about the MAEP award – He is arranging for a student to attend their meeting later in the week to pick up the check.
16. Dec. 1<sup>st</sup> – talked to Nathan Charlton about employment with the CoreKids program for the Spring Semester.

17. Dec. 1<sup>st</sup> – exchanged emails with Jenny Biallas (6<sup>th</sup> grade teacher, Clarkston, MI) about scheduling a corekids event at her school.
18. Dec. 1<sup>st</sup> -3<sup>rd</sup> – exchanged emails with CoreKids staff to plan logistics for the Dec. 5 events.
19. Dec. 3<sup>rd</sup> – exchanged emails with Kim Clancy (Gull Lake Middle School) in order to try to organize a corekids event for her classes.
20. Dec. 5<sup>th</sup> – Scheduled School event. Greater Heights Academy, Flint Mi. Grades – 4, 5 and 6. Michigan Geologic History. 75 students.
21. Dec. 5<sup>th</sup> – Scheduled School event. Southwood Elementary School, Kentwood, MI. Michigan Fossils Module. 55 students.
22. Dec. 5<sup>th</sup> – exchanged emails with Ardis Herrold (Grosse Point North High School) about their Fossil Day activities and the feedback she had received. Ardis informed me that she had put a video of the event on the web and provided the links to her blog post and the video:
  - a. <http://blogs.gpschools.org/herrola/>
  - b. <https://www.youtube.com/watch?v=agu8K6RsiYE&feature=youtu.be>
23. Dec. 8<sup>th</sup> – discussed the CoreKids program with Katherine Kay, Vicksburg Middle School. Kathy Wright forwarded me her contact information as she had a request for a sample identification. I emailed her copies of the CoreKids brochure.
  - a. Scheduled a CoreKids visit to her school for Jan. 5 and 6<sup>th</sup> – Michigan Fossils Module.
24. Dec. 8<sup>th</sup> – contacted Tracy Ruge (Gull Lake Community Schools Foundation) to ask for metrics from their Nov. 7-8<sup>th</sup> event.
25. Dec. 8<sup>th</sup> – exchanged emails with Maureen Kaczanowski (Southwood Elementary, Kentwood, MI) about the Dec. 5<sup>th</sup> event – requesting feedback. We also discussed some of the logistics for the Feb. 12<sup>th</sup> event that is currently in the planning stages.
26. Dec. 10<sup>th</sup> – exchanged emails with Lisa Harbour (Vicksburg Middle School – 8<sup>th</sup> grade) about the possibility of scheduling a corekids event for her classes. Clarified some of her questions about specific modules.
  - a. Scheduled corekids event for Jan. 13<sup>th</sup> and 14<sup>th</sup> – Earthquakes module
27. Dec. 10<sup>th</sup> – exchanged emails with Heather Brey (6<sup>th</sup>-7<sup>th</sup> grade, EF Rittmueller Middle School, Frankenmuth) about the possibility of scheduling a corekids event.
  - a. Tentatively scheduled for Jan. 21<sup>st</sup> and 22<sup>nd</sup>. The 22<sup>nd</sup> date needs to be confirmed by the other teacher.
28. Dec. 10<sup>th</sup> – exchanged emails with Bill Harrison and Heather Petcovic about the possibility of running a teachers workshop focused on Hydraulic fracturing.
29. Dec. 10<sup>th</sup> – exchanged emails with Ann Gilchrist to discuss the Climate Change Module and what changes need to be made to it.
30. Dec. 10<sup>th</sup> – Scheduled School Visit, Western Middle School (Auburn, MI), Michigan Fossils Module. Number of students: 118.

31. Dec. 15<sup>th</sup>– exchanged emails with Heather Brey about the CoreKids event at her school – updated calendar to reflect changes to event.
32. Dec. 16<sup>th</sup> – exchanged emails with Kathryn Wright for travel authorizations for upcoming January events. Also discussed with Kathy the current CoreKids budget.
33. Dec. 16<sup>th</sup> – exchanged emails with CoreKids staff to start working on scheduling staff members for upcoming January events.
34. Dec. 16<sup>th</sup> – Answered outreach email that Kathy Wright forwarded to me – a college student was interested in a career in Paleontology – I sent him some information about WMU’s program in Geology and wrote to him about careers in Paleontology.
35. Dec. 16<sup>th</sup> – I signed up as an observer for the 2015 Medallion Scholar Scholarship Competition in January, 2015.
36. Dec. 17<sup>th</sup> – exchanged emails with Lisa Winninger (Plainwell Middle School) to schedule a CoreKids event with her school. Waiting on her to pick date and module.
37. Dec. 17<sup>th</sup> – Erin Lewis (Kalamazoo Air Zoo) contacted me to borrow materials for a camp that she is running in late Dec.
38. Dec. 18<sup>th</sup> – met with Erin Lewis to lend her materials for an upcoming Air Zoo event on volcanoes.
39. Dec. 18<sup>th</sup> – exchanged emails with Lisa Winninger – scheduled a MGRRE tour for her STEM 6<sup>th</sup> grade class on Jan. 15 (Plainwell Middle School).
40. Dec. 18<sup>th</sup> – discussed needs for fossil core slabs with Jenny Trout and Tony Murawski (MGRRE) – Tony will work on slabbing part of the excess St. Charlton well for a CoreKids display set in early January.
41. Dec. 19<sup>th</sup> – exchanged emails with CoreKids staff – was able to assign people to almost all of the events in January.
42. Dec. 19<sup>th</sup> – exchanged emails with Lisa Harbour (Vicksburg Middle School) about logistics for her upcoming corekids event.
43. Dec. 19<sup>th</sup> – exchanged emails with Kim Clancy (Gull Lake Middle School) about scheduling an event for her school – tentatively scheduled for Jan. 7 and 9<sup>th</sup>.
44. Dec. 19<sup>th</sup> – checked the Gull Lake Schools Foundation website and found updated metrics for the Sparks Series event on Nov. 6<sup>th</sup> and 7<sup>th</sup>. I have updated the total.
  - a. Links to the event webpage and pictures from the event hosted by the GLCSF
  - b. <http://www.glcsf.org/spark-series.html>
  - c. <https://www.flickr.com/photos/michigantechyp/sets/72157646908787163/>
  - d. And links for pictures specific to Corekids at the event:
    - i. <https://www.flickr.com/photos/michigantechyp/15576382699/in/set-72157646908787163>
    - ii. <https://www.flickr.com/photos/michigantechyp/15576812258/in/set-72157646908787163>
45. Jan. 5<sup>th</sup> – Scheduled School Visit, Vicksburg Middle School 6<sup>th</sup> grade (45 students)

46. Jan. 5<sup>th</sup> – exchanged emails with Kim Clancy and CoreKids staff about upcoming event at Gull Lake Middle School.
47. Jan. 5<sup>th</sup> – exchanged emails with Jennifer Biallis about working with the 6<sup>th</sup> grade class at Clarkston Middle School (~600 6<sup>th</sup> graders) – trying to figure out a way to schedule that many kids.
48. Jan. 6<sup>th</sup> – scheduled school visit, Vicksburg Middle School 6<sup>th</sup> grade classes (Fossils Module). Total Students: 151.
49. Jan. 6<sup>th</sup> – exchanged emails with Jason Dunn (Science Coordinator, Discovery Elementary, Kentwood Public Schools) about possibility of scheduling a corekids event at his school.
50. Jan. 7<sup>th</sup> – Scheduled School Visit to Gull Lake Middle School canceled due to inclement weather. Working on rescheduling the event. Scheduled for Friday, Jan. 16<sup>th</sup>.
51. Jan. 7<sup>th</sup> – Contacted by Ruth Gullekson (Morley Stanwood Middle School) – working on scheduling a corekids event for her 6<sup>th</sup> grade classes. Tentatively scheduled for Feb. 3<sup>rd</sup>.
52. Jan. 7<sup>th</sup> – contacted CoreKids staff to start planning on Feb. CoreKids events.
53. Jan. 7<sup>th</sup> – Contacted Jennifer Biallis (Clarkston Middle School) to tentatively schedule the Clarkston event for Feb. 5<sup>th</sup>.
54. Jan. 7<sup>th</sup> – Contacted Lori Lachowitz (Berkshire Middle School) about logistics of upcoming February event for her school. She confirmed the dates for the 12<sup>th</sup> and 13<sup>th</sup>.
55. Jan. 8<sup>th</sup> – exchanged emails with Jason Dunn with regard to scheduling an event for Discovery Elementary, Kentwood Public Schools – I provided him with a list of possible dates.
56. Jan. 8<sup>th</sup> – provided edits and comments for John Yellich's report of activities for 2014 for the Michigan Legislature.
57. Jan. 8<sup>th</sup> – exchanged emails with Bill Mitchell (KGMS) about the possibility of finding a guest lecturer for their Annual show in May.
58. Jan. 8<sup>th</sup> – contacted Tom Occhipinti (MI DEQ) about the DEQ Earth Day festivities on Apr. 22<sup>nd</sup>, 2015. Asked when participants needed to register by – which will be in late Jan.-early Feb.
59. Jan. 8<sup>th</sup> – exchanged emails with Kim Clancy and Laurie Klok (Gull Lake Middle School) about rescheduling Laurie's classes for Monday Jan. 12<sup>th</sup>.
60. Jan. 12<sup>th</sup> – Scheduled School Visit, Gull Lake Middle School (6<sup>th</sup>-7<sup>th</sup> Grade, Laurie Klok's classes). Michigan Geologic History Module. Total Students: 124 students.
61. Jan. 13<sup>th</sup> – Scheduled School Visit, Vicksburg Middle School (6<sup>th</sup> Grade). Earthquakes Module. Lisa Harbour's classes. 150 Students.
62. Jan. 13<sup>th</sup> – met with Ann Gilchrist to discuss CoreKids equipment and what supplies need to be purchased.
63. Jan. 14<sup>th</sup> – Scheduled School Visit, Vicksburg Middle School (6<sup>th</sup> Grade). Earthquakes. Mrs. Crummage's classes. Total Students: 46 students.
64. Jan. 15<sup>th</sup> – Scheduled School MGRRE Tour, Plainwell Middle School (6<sup>th</sup> Grade STEM Class). Lisa Winner's class. Michigan Geologic History Module with MGRRE tour.

31 students + 6 adults. I sent Lisa a copy of the evaluation form and asked her to fill it out.

65. Jan. 15<sup>th</sup> – Exchanged emails with Lisa Harbour (Vicksburg Middle School) – she sent me evaluation forms and confirmed her student count.
66. Jan. 15<sup>th</sup> – Exchanged emails with Jasmine Rogers, a Room Parent for Walden Green Montessori school – we discussed options for CoreKids working with her school.
67. Jan. 16<sup>th</sup> – exchanged emails with Katherine Kay and Lisa Harbour (Vicksburg Middle School) to get feedback from Mrs. Kay as well as the 2 other teachers from Vicksburg that we worked with – Mrs. Crummage and Mrs. Cabbage.
68. Jan. 16<sup>th</sup> – exchanged emails with Debbie Zolynsky (Lake Shore High School) – that I would not be able to provide her with core pumps in the near future as she had requested.
69. Jan. 16<sup>th</sup> – exchanged emails with Heather Brey (E.F. Rittmueller Middle School) confirming logistics for next week's events.
70. Jan. 16<sup>th</sup> – received 2 lots of polished quartz crystals from an ebay sale – these will be used as giveaway samples.
71. Jan. 16<sup>th</sup> – exchanged emails with Ann Gilchrist – she had developed some new content to go along with the Climate Change Module. I checked it over and accepted it.
72. Jan. 16<sup>th</sup> – Scheduled School Visit – Gull Lake Middle School (6<sup>th</sup> and 7<sup>th</sup> grade – Kim Clancy's classes). Michigan Geologic History Module. 116 kids.
73. Jan. 17<sup>th</sup> – Scheduled CoreKids event – WMU STEM-ulating Career Day. Modified Michigan Geologic History Module designed for quick sessions. 44 children + 12 adults.
74. Jan. 20<sup>th</sup> – Exchanged emails with Jason Dunn (Discovery Elementary, Kentwood) about scheduling dates for a corekids visit.
75. Jan. 20<sup>th</sup> – Exchanged emails with Gina Horn (Branch Co. District Library) about the possibility of Summer programming – I have held off booking any events with the library until we know what CoreKids funding situation would be.
76. Jan. 20<sup>th</sup> – Exchanged emails with Jasmine Rogers (Walden Green Montessori School) with possible dates for a corekids event as well as details on donating funds to CoreKids. Tentatively scheduled for feb. 9<sup>th</sup>.
77. Jan. 21<sup>st</sup> – Exchanged emails with Tova Samuels (iL.E.A.D. Success Tutoring & Mentoring), Carla Koretsky and Heather Petcovic about STEM activities for 6-8<sup>th</sup> graders.
78. Jan. 21<sup>st</sup> – exchanged emails with Jasmine Rogers (Walden Green Montessori School) – working on scheduling staff for Feb. 9<sup>th</sup> visit to her school.

79. Jan. 21<sup>st</sup> – exchanged emails with Jason Dunn (Discovery Elementary) about dates for a CoreKids event – he requested Feb. 9<sup>th</sup> – but I had already given this date to Walden Green Montessori School, so I asked him for an alternate date. Tentatively scheduled for Feb. 19<sup>th</sup>.
80. Jan. 21<sup>st</sup> – received updated totals for the Vicksburg 6<sup>th</sup> grade visits
81. Jan. 21<sup>st</sup> – working on scheduling second visit with Gull Lake 6-7<sup>th</sup> grade for late Feb.
82. Jan. 21<sup>st</sup> – Scheduled School Visit: EF Rittmueller Middle School (6<sup>th</sup> grade – MI Geologic History, 7<sup>th</sup> grade – Climate Change). 113 students.
83. Jan. 22<sup>nd</sup> – I am having Lola Krievis update the CoreKids evaluation form as a pdf worksheet.
84. Jan. 22<sup>nd</sup> – Exchanged emails with Kim Clancy (Gull Lake Middle School) to set up a pair of visits to her school Feb. 20 and 23 to do the Earthquakes Module.
85. Jan. 24<sup>th</sup> – Assisted with the WMU Medallion Scholarship competition – group activity observer for three sessions with 10 high school seniors in each session.
86. Jan. 28<sup>th</sup> – Emailed Jenny Bialis (Clarkston Middle School) – I was unable to find enough people (or equipment) to send CoreKids to her school on Feb. 5<sup>th</sup>.
87. Jan. 28<sup>th</sup> – Received feedback form from Laurie Klok (Gull Lake Middle School).
88. Jan. 28<sup>th</sup> –exchanged emails with John Yellich with regard to the MGS annual report and the corekids component of the report.
89. Jan. 28<sup>th</sup> – exchanged emails with Gina Horn (Branch Co. District Library System) about funding CoreKids events with their libraries.
90. Jan. 28<sup>th</sup> – exchanged emails with the CoreKids staff – updated them on the list of events and who was doing which event. Included Kathy Wright on the email, so she could set up travel authorizations.
91. Jan. 28<sup>th</sup> – put together draft abstract on the hydraulic fracturing module for presentation at North-Central GSA. I forwarded the draft to the coauthors (Ann Gilchrist, Heather Petcovic, Bill Harrison) for comment. I talked to Heather about writing a second abstract for the MGRRE portal – and will work on the draft over the next two days.
92. Jan. 28<sup>th</sup> – Scheduled School Visit, Western Middle School. Earthquakes Module. 118 students.
93. Jan. 29<sup>th</sup> – exchanged emails with Joanne Klussendorf about North Central GSA Outreach Session
94. Jan. 31<sup>st</sup> – participated in the second day of Medallion Scholarship competition as a Group Problem Solving Project Observer.
95. Feb. 2<sup>nd</sup> – Lindsay Bergquist – former student educator for CoreKids requested letters of recommendation for graduate studies. I provided her with letters.

96. Feb. 2<sup>nd</sup> – Exchanged emails with Lamesh Mohamed, Abotalib Farag, Cameron Manche about staffing the Feb. 3<sup>rd</sup> event at Morley Stanwood Middle School.
97. Feb. 2<sup>nd</sup> – Exchanged emails with Maureen Kaczanowski (Southwood Elementary School) about her upcoming Science Fair event. Worked on logistics for the event.
98. Feb. 3<sup>rd</sup> – exchanged emails with Brian Horvitz, Bill Harrison, Heather Petcovic and Bill Cobern with regard to the proposed MGRRE Portal abstract for the North Central GSA Meeting.
99. Feb. 3<sup>rd</sup> – Scheduled School Visit at Morley Stanwood Middle School. 90 students.
100. Feb. 4<sup>th</sup> – received revised CoreKids evaluation form from Lolita Krievs.
101. Feb. 5<sup>th</sup> – exchanged emails with Jasmine Rogers, Dawn Caldwell and Jay Kim about the upcoming event at Walden Green Montessori School
102. Feb. 9<sup>th</sup> – exchanged emails with John Peters (Michigan Mineralogical Society) about the possibility of CoreKids being present at their fall show. I did not confirm attendance at this point.
103. Feb. 9<sup>th</sup> – received email from Mary Jo Warwick (Washington Writers Academy) about the possibility of scheduling CoreKids for the March 4<sup>th</sup> career day.
104. Feb. 9<sup>th</sup> – called Lori Lachowicz (Berkshire Middle School) to organize logistics for Thursday and Friday's events at her school.
105. Feb. 9<sup>th</sup> – submitted abstract to North Central GSA meeting for the Hydraulic Fracturing Model. Still working on the second abstract on the MGRRE Portal – it was too long for submission. Submitted second abstract later in the afternoon.
106. Feb. 9<sup>th</sup> – Confirmed with Mary Jo Warwick the March 4<sup>th</sup> date.
107. Feb. 10<sup>th</sup> – exchanged emails with Cameron Manche and Tom Howe about putting together duplicate Michigan Geologic History module materials to have a second pared down set.
108. Feb. 11<sup>th</sup> – exchanged emails with Suzanne Lutwick, Linda and Bill Harrison, John Yellich and Mohamed Sultan about Suzanne's draft proposal to submit to Consumers Energy Foundation in support of CoreKids. I set up a meeting time with her for Feb. 26<sup>th</sup> and will work on filling in the draft proposal that she sent me.
109. Feb. 11<sup>th</sup> – Contacted Brittany Burgess (U of M Museum of Natural History) about upcoming event with the museum. Also solicited abstracts for the North-Central GSA Meeting.
110. Feb. 11<sup>th</sup> – exchanged emails with Linda Dull and Gina Horn (Branch County District Library System) about summer programming possibilities.
111. Feb. 12<sup>th</sup> – exchanged emails with Brittany Burgess (U of M Museum of Natural History) – She requested that we add a second march date to the calendar in partnership with them. The second date is March 17<sup>th</sup> (Michigan Geologic History Module, 9:30 am to noon).

112. Feb. 12<sup>th</sup> Scheduled School visit, Berkshire Middle School (Michigan Geologic History Module, 125 students)
113. Feb. 12<sup>th</sup> – Scheduled School visit, Southwood Elementary School, Kentwood (Michigan Geologic History) – Science Fair, 400 total participants with 212 students.
114. Feb. 13<sup>th</sup> – received notice that the MGRRE Portal NSF proposal had been rejected.
115. Feb. 13<sup>th</sup> – Scheduled School visit, Berkshire Middle School (Michigan Geologic History, 125 students)
116. Feb. 16<sup>th</sup> – Exchanged emails with Robin St. Arnauld (Moorsbridge, Portage Public Schools) about the possibility of scheduling a CoreKids visit to her school in June. I have tentatively scheduled dates, but have informed her that I don't know what the funding situation will be at the point.
117. Feb. 16<sup>th</sup> – exchanged emails with Jason Dunn (Discover Elementary) and CoreKids staff to confirm logistics for upcoming event.
118. Feb. 16<sup>th</sup> – exchanged emails with CoreKids staff, Laurie Klok and Kim Clancy (Gull Lake) to confirm logistics of upcoming event.
119. Feb. 16<sup>th</sup> – exchanged emails with Jasmine Rogers (Walden Green Montessori) about future events with CoreKids and her district.
120. Feb. 19<sup>th</sup> – Scheduled School Visit, Discover Elementary School, Kentwood, MI (100 students)
121. Feb. 20<sup>th</sup> - Gull Lake event canceled due to weather. Working on rescheduling it.
122. Feb. 23<sup>rd</sup> – Scheduled School Visit, Gull Lake Middle School (Clancy's classes, Earthquake module).
123. Feb. 23<sup>rd</sup> – rescheduled the second day of Gull Lake Middle School to Friday, Feb. 27<sup>th</sup>.
124. Feb. 23<sup>rd</sup> – exchanged phone calls with Amy Schmidt about the possibility of a cub scouts tour at MGRRE – tentatively scheduled for March 24<sup>th</sup>.
125. Feb. 24<sup>th</sup> – exchanged emails with Mary Jo Warwick with regard to the Science Literacy Night at Washington Writers Academy – logistics for the event.
126. Feb. 24<sup>th</sup> – Tom Howe scheduled a school visit to Mattawan Middle School for March 18<sup>th</sup>. He will be using corekids equipment and testing out the sand box in a classroom setting. I am sending corekids staff with him.
127. Feb. 26<sup>th</sup> – Meeting with Suzanne Lutwick rescheduled to March 3.
128. Feb. 27<sup>th</sup> – exchanged emails with Vicky Smith (Western Middle School) and Ann Najera (North Hill Elementary) about logistics for their upcoming events.
129. Feb. 27<sup>th</sup> – exchanged emails with Jason Dunn (Discover Elementary, Kentwood) about the possibility for returning to his school for the third grade classes.
130. Feb. 27<sup>th</sup> – solicited CoreKids staff for the late March events.
131. March 4<sup>th</sup> – Scheduled School visit – Science Literacy Night, Washington Writers Academy (modified geologic history module). 80 participants.
132. March 5<sup>th</sup> – worked with Kathy Wright and Laura Weber (WMU) to get liability insurance forms for the upcoming DEQ Earth Day event.



133. March 5<sup>th</sup> – exchanged emails with Eric Wildfang (MI DEQ) about the DEQ Earth Day event. Submitted exhibitor form and proof of liability insurance form.
134. March 5<sup>th</sup> – received confirmation that our NC GSA abstracts had been accepted.
135. March 9<sup>th</sup> – exchanged emails with Brittany Burgess (U of M, Museum of Natural History) about logistics for upcoming corekids events with the Museum.
136. March 9<sup>th</sup> – lent several hydraulic fracturing models to Heather Petcovic for use in her classroom.
137. March 9<sup>th</sup> – received notification from North-Central GSA that both CoreKids abstracts had been accepted.
138. March 9<sup>th</sup> – received thank you note from Southwood Elementary for CoreKids participation in their Science fair.
139. March 17<sup>th</sup> – Scheduled event – U of M Museum of Natural History. Modified Mi. Geol. History Module. 75 students and 21 chaperones and teachers.
140. March 17<sup>th</sup> – Scheduled School Visit – Heather Petcovic’s GEOS 2900: Earth Systems - Issues and Applications. Modified Hydraulic Fracturing Module. 21 students. Worked with model including photographing model being used.
141. March 18<sup>th</sup> – Scheduled event – U of M Museum of Natural History. Modified Mi. Geol. History Module. 175 students and 44 chaperones and teachers.
142. March 18<sup>th</sup> – Scheduled School Visit – Mattawan Middle School. Modified Mi. Geol. History Module. 150 students. First test of the portable sand box.
143. March 18<sup>th</sup> – Scheduled School Visit – North Hill Elementary, Rochester, MI. Michigan Fossils Module. 96 students.
144. March 20<sup>th</sup> – exchanged emails with Laura Cross, Kalamazoo Air Zoo. She wanted to discuss possible summer joint activities. I will contact her with possibilities on the 24<sup>th</sup>.
145. March 21<sup>st</sup> – exchanged emails with Robin St. Arnaud (Moorsbridge Elementary School, Portage) scheduling CoreKids event for June 1 and 2.
146. March 21<sup>st</sup> – exchanged emails with Ann Najera (North Hill Elementary) about the possibility of scheduling a second event for her school.
147. March 21<sup>st</sup> – exchanged emails with Sita Karki about the possibility of developing a new CoreKids schools map.
148. March 23<sup>rd</sup> – Scheduled CoreKids event for May 14 at North Hill Elementary School, Rochester, MI.
149. March 23<sup>rd</sup> – exchanged emails with Brittany Burgess (U of M Museum of Natural History) and Tom Howe (WMU) about feedback and metrics from previous events.
150. March 23<sup>rd</sup> – updated CoreKids report. Generated two poster panels for display at the PTTC and MOGA meetings this spring.
151. March 23<sup>rd</sup> – Scheduled School visit, Western Middle School, Auburn, MI (Hydrogeology Module). 138 students.
152. March 24<sup>th</sup> – Scheduled School visit, Western Middle School, Auburn, MI (Hydrogeology Module). 60 students.

153. March 24<sup>th</sup> – Scheduled outreach event at MGRRE. Cub scout troop. 20 students.
154. March 27<sup>th</sup> – exchanged emails with Laura Cross about the possibility of setting up a joint CoreKids-Air Zoo event in July (sometime between the 7<sup>th</sup> and the 10<sup>th</sup>)
155. March 28<sup>th</sup> – received update from Donna Seibert about the KGMS mineral show and the location of the CoreKids booth at the show.
156. March 31<sup>st</sup> – received updated and edited Schools visit map from Sita Karki. Have attached with this report.
157. April 1<sup>st</sup> – Sent out emails to the CoreKids staff to try to organize staffing for the DEQ Earth Day and KGMS Annual Show events. 4 staff members are scheduled for the Earth Day event and I am still working on the KGMS event.
158. April 7<sup>th</sup> – received updated information for the DEQ Earth Day event including set-up times and booth location (in one of the tents).
159. April 9<sup>th</sup> – exchanged emails with Megan Coonan (Math Curriculum Supervisor) of Bangor Township Schools who requested information about the CoreKids program and the possibility of scheduling an event with the program.
160. April 9<sup>th</sup> – exchanged emails with Jared Brown (former Western student, now at Innova Exploration) about fossil collecting sites in Michigan
161. April 10<sup>th</sup> – Updated CoreKids panel with new map from Sita for use at MOGA meeting
162. April 14<sup>th</sup> – Attended Michigan Oil and Gas Association Annual Meeting with Bill Harrison
  - a. Promoted MGS, MGRRE and CoreKids
  - b. Gave verbal update to John Griffin (API) about CoreKids progress this year. He requested a short paragraph to provide to his bosses at the end of the school year.
  - c. Met with Erin McDonough and Denise Pallarito (Chief of Staff, State Legislature Representative Triston Cole) about CoreKids program. Discussed natural resources and hydraulic fracturing outreach.
  - d. Met with ~30-40 people at booth to discuss Survey and related activities.

## Current Totals (July 1, 2014 to July 1, 2015)

Scheduled School Visits	<b>2362</b>
Branch Co. Library System	<b>234</b>
U of M Museum of Natural History	<b>499</b>
Kalamazoo Air Zoo	<b>25</b>
College Groups	<b>53</b>

MESTA Conference	37
MBGS Sept. 11 meeting	50
Cranbrook Institute of Science Rouge River Water Festival	108
MMS Annual Show (School Day)	2454
MSU National Fossil Day [note waiting on metrics information – value approximate]	400
Central Michigan Annual Show	979
KGMS Meeting	43
WMU Foundation Event Bronson	20
Gull Lake Sparks Series Event [note waiting on metrics information – value approximate]	9000?
Grosse Point North Fossil Day	200
WMU STEM-ulating Career Day	56
Southwood Elementary Science Fair	400
Other	20
<b><u>Total</u></b>	<b><u>16,940</u></b>

## Projected Totals of Upcoming Events

### **Total Projected:**

**Total Projected + Actual** **16,940**

### a. **Past Outreach Events, July 1<sup>st</sup>, 2014 and on**

- i. July 3<sup>rd</sup> – University of Michigan Museum of Natural History Summer Camp
- ii. July 8<sup>th</sup> – Kalamazoo Air Zoo Eco Explorers Camp – on main campus [Michigan Geologic Resources and the Sandbox]
- iii. July 9<sup>th</sup> – Coldwater Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- iv. July 10<sup>th</sup> – Bronson Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- v. July 10<sup>th</sup> Sherwood Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- vi. July 11<sup>th</sup> – Union branch, Branch Co. District Library [Natural Hazards: Earthquakes Module]

- vii. July 16<sup>th</sup> – Kalamazoo Air Zoo Eco Explorers Camp – at Air Zoo
- viii. July 17<sup>th</sup> – Coldwater Branch, Branch Co. District Library [Natural Hazards: Earthquakes Module]
- ix. August 6<sup>th</sup> – Hydrogeology Field Camp MGRRE Tour
- x. Aug. 12<sup>th</sup>- University of Michigan Museum of Natural History Summer Camp
- xi. Aug. 14<sup>th</sup> –Aug. 16<sup>th</sup> – Michigan Earth Science Teachers Association Annual Meeting
- xii. Sept. 11<sup>th</sup> – M.B.G.S. Monthly meeting at MGRRE.
- xiii. Sept. 12<sup>th</sup> – The Cranbrook Institute of Science Rouge River Water Festival
- xiv. Oct. 10-12. Michigan Mineralogical Society Annual Show
- xv. Oct. 14: Classroom visit by K.G.M.S. President using CoreKids Core Pumps; Star Elementary School, Plainwell MI
- xvi. Oct. 18: MSU/MESTA joint National Fossil Day Event
- xvii. Oct. 23. Gobles Elementary School Science/Job Fair
- xxviii. Oct. 24<sup>th</sup> – school day visit, Central Michigan 49<sup>th</sup> annual Rock Show
- xix. Nov. 4. K.G.M.S. Club Meeting at MGRRE
- xx. Nov. 7<sup>th</sup> – Friendship Village, Bronson
- xxi. Nov. 7-8. Gull Lake Community Schools Foundation – Sparks Series, Science and Engineering Fair.
- xxii. Nov. 19: U-M, Museum of Natural History Geology Day
- xxiii. Nov. 21<sup>st</sup> – Grosse Pointe High School Fossil Day
- xxiv. Dec. 5<sup>th</sup> – Greater Heights Academy [MI Geologic History Module]
- xxv. Dec. 5<sup>th</sup> – Southwood Elementary (Kentwood, MI) [MI Geologic History Module with emphasis on Fossils]
- xxvi. Dec. 10<sup>th</sup> – Western Middle School (Fossil Module)
- xxvii. Jan. 5th and 6th – Vicksburg Middle School (6th grade -- Fossil Module)
- xxviii. Jan. 12th and 16th – Gull Lake Middle School (6-7th grade – Module TBD)
- xxix. Jan. 13th and 14th – Vicksburg Middle School (8th grade – Earthquakes Module)
- xxx. Jan. 15th – Plainwell Middle School (6th grade – MGRRE tour + modified Michigan Geologic History Module)
- xxxi. Jan. 17 – WMU STEM-ulating career day
- xxxii. Jan. 21st -- EF Rittmueller Middle School (6th grade – MI Geologic History, 7th grade – Climate Change)
- xxxiii. Jan. 28<sup>th</sup> – Western Middle School (Earthquake Module)
- xxxiv. Feb. 3<sup>rd</sup> – Morley Stanwood Middle School (6<sup>th</sup> grade – MI Geologic History)
- xxxv. Feb. 9<sup>th</sup> – Walden Green Montessori School (Middle School – MI Geological History)
- xxxvi. Feb. 12-13<sup>th</sup> – Berkshire Middle School
- xxxvii. Feb. 12<sup>th</sup> – STEM Night, Southwood Elementary School
- xxxviii. Feb. 19<sup>th</sup> – Discover Elementary School (Kentwood – MI Geological History Module)
- xxxix. Feb. 20<sup>th</sup> and 27<sup>th</sup> – Gull Lake Middle School (Earthquakes Module)

- xl. March 4<sup>th</sup> – Washington Writers Academy Family Literacy Night (modified MI Geologic History Module)
- xli. March 17<sup>th</sup> – U-M, Museum of Natural History Geology Day
- xlii. March 18<sup>th</sup> – U-M, Museum of Natural History Geology Day
- xliii. March 18<sup>th</sup> – North Hill Elementary, Rochester, MI (MI Fossils Module)
- xliv. March 18<sup>th</sup> – Mattawan Middle School (modified Michigan Geologic History Module)
- xlv. March 23<sup>rd</sup> and 24<sup>th</sup> – Western Middle School (Hydrogeology Module)
- xlvi. March 24<sup>th</sup> – Cub Scout Troop (MGRRE tour and Michigan Geologic History Module)

**b. Upcoming Events**

- i. Apr. 22<sup>nd</sup> – DEQ Earth Day Event
- ii. May 1<sup>st</sup> -3<sup>rd</sup> – KGMS Annual Show.
- iii. May 14<sup>th</sup> – North Hill Elementary School, Rochester, MI (MI Geological History Module)
- iv. June 1<sup>st</sup> or 2<sup>nd</sup> – Moorsbridge Elementary School (modified Michigan Geologic History).

## Distribution of Scheduled School Visits and MGRRE Tours

