Michigan Geological Survey Report 16 from the K-12 Outreach Director, Peter Voice May 29, 2015

New Items:

- 1. April 15th report 15 presented to the director of the Michigan Geological Survey, John Yellich
- 2. April 16th worked on scheduling CoreKids staff for upcoming April-early June events
- 3. April 16th exchanged emails with Donna Seibert and Jerry VanNocker (KGMS) with regard to the school day component of the KGMS 2015 annual show requested information on set-up time and hours of operation. Discussed with Bill Mitchell to arrange KGMS's use of the MGRRE stratigraphic record display for the show.
- 4. April 17th exchanged emails with Robin St. Arnauld about a potential donation from Moorsbridge elementary to the CoreKids program to cover some of the students' time during the upcoming CoreKids events at that school.
- 5. April 17th-20th exchanged emails with Laura Cross and Kathy Larsen about Kalamazoo AirZoo-CoreKids partnership we will set up a meeting in June to discuss further collaborations
- 6. April 21st exchanged emails with Ann Najera (North Hill Elementary) about logistics of their mid-May CoreKids event.
- 7. April 22nd Scheduled CoreKids event with Mi Department of Environmental Quality. Earth Day event. CoreKids sent four staff members and a variety of Michigan rocks and fossils to the event.
- 8. April 22nd Linda Harrison forwarded to me a contact form from Jodie Romzek (Director of Education, BaySail Appledore Tall Ships) who had seen our exhibit at the DEQ Earth Day. She was requesting a set of core pumps. I replied to her email that we were no longer making core pumps for sale and provided her with information about borrowing a set of pumps or having CoreKids staff bring pumps to a joint event.
 - a. After checking with the CoreKids staff, I realized that the core pumps were not part of our display the only way she could have seen them at the DEQ event was if she stopped at the Michigan Basin Geological Society Booth. I forwarded her email to Mark Nida and Mark Wollensak.
 - b. Mark Wollensak responded to her as well they do not provide core pumps at cost either.
- 9. April 22nd Meeting with John Yellich, Al Kehew, Bill and Linda Harrison, Sita Karki and Kyle Chouinard to discuss the MDEQ Groundwater Strategy proposal.
- 10. April 22nd sent report 15 to Sita Karki and asked her to update the CoreKids website with the new map and to add the link for report 15 to the list of reports.

- 11. April 23rd-24th worked with Robin St. Arnauld (Moorsbridge Elementary) to put together an invoice so they can donate funds to the corekids program
- 12. April 27th scheduling meeting with corekids staff went over planning the schedule for the KGMS event.
- 13. April 27th received receipt from Moorsbridge Elementary for their contribution to the CoreKids program.
- 14. April 28th exchanged emails with Linda Dull (Branch Co. District Library system) about scheduling summer events she requested information about possible times.
- 15. April 29th exchanged emails with Brittany Burgess (U of M Museum of Natural History) she wanted to organize a joint event for May 6th. I was able to find staff to send on that date. 2 sessions using the MI. Geol. History Module.
- 16. April 30th exchanged emails with Linda Dull (Branch Co. District Library System) about scheduling events she would like visits to three Branch Co. District Library branches on July 23rd. 1. 12:30 pm Union City; 3:00 pm Sherwood; and 6:00 pm Coldwater. The module at all three events would be Michigan Fossils.
- 17. April 30th exchanged emails and telephone calls with Kellie Kanicki (Bangor West Elementary, Bay City) to try to schedule a CoreKids event tentatively scheduled for May 21st. Cameron Manche will work on scheduling the event in my absence for the WMU Geology Club trip.
- 18. April 30th met with Cameron Manche to discuss logistics of running CoreKids while I am on the WMU Geology club trip.
- 19. April 30th Brittany Burgess (U of M Museum of Natural History) confirmed with me and Cameron the upcoming event on May 6th.
- 20. May 6th scheduled visit, U of M Museum of Natural History 103 students. MI Geol. Resources module.
- 21. May 13th developed powerpoint presentation for the Hydraulic Fracturing Model presentation for NC GSA. Bill Harrison reviewed the powerpoint.
- 22. May 13th replied to forwarded email from Carla Koretsky. Message was from Hannah Kelly, Director Gilden Woods Early Childcare and Preschool about possible visits to WmU Geology labs. I sent Hannah information about the Corekids program.
- 23. May 13th emailed Carla Koretsky with some ideas about expanding the CoreKids program I will try to meet with her in June.
- 24. May 13th event at North Hill Elementary canceled due to staffing problem. Working on rescheduling the event.
- 25. May 14th received donation check from North Hill Elementary School for \$200.00.
- 26. May 14th exchanged emails with Jason Dunn (Discover Elementary, Kentwood) about possible events suggested Fall events. He also confirmed the number of participants from our February event with their school.

- 27. May 14th exchanged emails with Brittany Burgess (U of M Museum of Natural History) requesting feedback from our joint event on May 6th.
- 28. May 14th met with Heather Petcovic to discuss our two presentations at NC GSA.
- 29. May 19th and 20th activities at North Central Geological Society of America section meeting at Madison, WI
 - Heather Petcovic presented a talk on lessons learned from teachers workshops for developing the MGRRE Portal (Involving Stakeholders in Developing Webbased Outreach Resources: An Example from the MGRRE Education Portal)
 - b. Peter Voice presented a talk on the Hydraulic fracturing Model (A Demonstration Model of Hydraulic Fracturing: Hands-on Analog to Fracturing Shale)
 - c. Peter Voice co-chaired the GO-MPS session Thinking outside the Display Case: Innovative Geological Outreach at Museums, Parks and Surveys
 - d. Discussions with Lisa Anderson (Illinois Geological Survey) led to decision to jointly co-chair the GO-MPS session at NCGSA in 2016.
 - e. Discussions with Carol McCartney (Wisconsin Geological Survey) discussed different aspects of our outreach programs as well as some of the programs that they have started using UGS core repository funds.
 - f. Discussions with Joanne Klussendorf (Weis Earth Science Museum) about activities for enrichment of blind/seeing-impaired people at Museums.
- 30. May 20th May 23rd continued to work on rescheduling the North Hill Elementary school event waiting on confirmation from teacher.
- 31. May 22nd forwarded brief biographical sketch to John Yellich for one of his proposals.
- 32. May 25th started working on the CoreKids annual report.
- 33. May 25th received update from Jerry Van Nocker (Kalamazoo Geological and Mineral Society) on the KGMS annual show ticket sales. They had 4,006 participants this year.
- 34. May 26th finished Annual report with revisions from John Yellich Breanne Lejeune uploaded a copy to the CoreKids website.
- 35. May 26th finished a report of activities at North Central GSA meeting and provided report to the Harrisons, Yellich and Sultan for review.
- 36. May 26th discussed via email with Heather Petcovic the possibility of recycling part of our hydraulic fracturing module talk for the upcoming MESTA conference in the fall.
- 37. May 26th fielded several emails from WMU graduate students about possibility of working for CoreKids in the late summer and fall.
- 38. May 26th emailed Suzanne Lutwick about new annual report and discussed some pending proposals that we are working on.
- 39. May 27th exchanged emails with Hannah Kelly (Gilden Woods Early Care and Preschool) discussed possible event for her group in August I asked her a few logistics questions to help with figuring out whether an event was feasible or not.

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

Scheduled School Visits	2342
Branch Co. Library System	234
U of M Museum of Natural History	602
Kalamazoo Air Zoo	25
College Groups	53
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	e] 9000?
Grosse Point North Fossil Day	200
WMU STEM-ulating Career Day	56
Southwood Elementary Science Fair	400
Other	20
DEQ Earth Day	2300
KGMS Annual Show	4,006
<u>Total</u>	<u>23,329</u>
Projected Totals of Upcoming Events	
Scheduled School Visits	200

Total Projected:

a. Past Outreach Events, July 1st, 2014 and on

- i. July 3rd University of Michigan Museum of Natural History Summer Camp
- ii. July 8th Kalamazoo Air Zoo Eco Explorers Camp on main campus [Michigan Geologic Resources and the Sandbox]
- iii. July 9th Coldwater Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- iv. July 10th Bronson Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- v. July 10th Sherwood Branch, Branch Co. District Library [Natural Hazards: Volcanoes Module]
- vi. July 11th Union branch, Branch Co. District Library [Natural Hazards: Earthquakes Module]
- vii. July 16th Kalamazoo Air Zoo Eco Explorers Camp at Air Zoo
- viii. July 17th Coldwater Branch, Branch Co. District Library [Natural Hazards: Earthquakes Module]
- ix. August 6th Hydrogeology Field Camp MGRRE Tour
- x. Aug. 12th- University of Michigan Museum of Natural History Summer Camp
- xi. Aug. 14th –Aug. 16th Michigan Earth Science Teachers Association Annual Meeting
- xii. Sept. 11th M.B.G.S. Monthly meeting at MGRRE.
- xiii. Sept. 12th 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
- xviii. Oct. 24th school day visit, Central Michigan 49th annual Rock Show
- xix. Nov. 4. K.G.M.S. Club Meeting at MGRRE
- xx. Nov. 7th 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. 21st Grosse Pointe High School Fossil Day
- xxiv. Dec. 5th Greater Heights Academy [MI Geologic History Module]
- xxv. Dec. 5th Southwood Elementary (Kentwood, MI) [MI Geologic History Module with emphasis on Fossils]
- xxvi. Dec. 10th 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. 28th Western Middle School (Earthquake Module)
- xxxiv. Feb. 3rd Morley Stanwood Middle School (6th grade MI Geologic History)
- xxxv. Feb. 9th Walden Green Montessori School (Middle School MI Geological History)
- xxxvi. Feb. 12-13th Berkshire Middle School
- xxxvii. Feb. 12th STEM Night, Southwood Elementary School
- xxxviii. Feb. 19th Discover Elementary School (Kentwood MI Geological History Module)
- xxxix. Feb. 20th and 27th Gull Lake Middle School (Earthquakes Module)
 - xl. March 4th Washington Writers Academy Family Literacy Night (modified MI Geologic History Module)
 - xli. March 17th U-M, Museum of Natural History Geology Day
 - xlii. March 18th U-M, Museum of Natural History Geology Day
 - xliii. March 18th North Hill Elementary, Rochester, MI (MI Fossils Module)
 - xliv. March 18th Mattawan Middle School (modified Michigan Geologic History Module)
 - xlv. March 23rd and 24th Western Middle School (Hydrogeology Module)
 - xlvi. March 24th Cub Scout Troop (MGRRE tour and Michigan Geologic History Module)
- xlvii. Apr. 22nd DEQ Earth Day Event
- xlviii. May 1st -3rd KGMS Annual Show.
- xlix. May 6th U of M Museum of Natural History (MI Geologic History Module)

b. Upcoming Events

- i. June 1st or 2nd Moorsbridge Elementary School (modified Michigan Geologic History.
- ii. June 10th North Hill Elementary School, Rochester, MI (MI Geological History Module) – working on rescheduling
- iii. July 9th Kalamazoo Air Zoo Campus visit
- iv. July 23rd Branch Co Library events

Distribution of Scheduled School Visits and MGRRE Tours

