AIPG at Michigan Tech Annual Report
Fall 2017 – Spring 2018

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Michigan Technological University
Houghton, MI 49931
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1. Inclusive dates of the year being reported

The National AIPG Executive Committee welcomed the Michigan Technological University Student Chapter on October 18, 2017. Michigan Technological University recognized the student organization on November 17, 2017. The first event the chapter held was a geoheritage tour on September 16, 2017 organized by the Chapter’s Sponsor, Dave Adler. For this reason, the 2017/2018 annual report will include information from September 2017 to April 2018.

2. Membership

2.1 Chapter Officers

2017/18 School Year

President: Andrew Dubay agdubay@mtu.edu
Vice President: Michael Schienke mxschien@mtu.edu
Secretary: Katie Kring kekring@mtu.edu
Treasurer: Jessalyn Taylor jntaylor@mtu.edu

2018/19 School Year

President: Evelyn Jobe etjobe@mtu.edu
Vice President: Quelyn Bekkering qrbekker@mtu.edu
Secretary: Allan Kambindama amkambin@mtu.edu
Treasurer: Sienna Meekhoff smmeekho@mtu.edu
2.2 Chapter Members

Total number of members: 42

Andrew Dubay            Hannah Koskinemi            Marissa Schorr
Abi Raetz               Hannah Weeks              Melanie Zondag
Abigail Friedl          Ian Gannon               Martine Hope
Allison Hartz           Jessalyn Taylor          Michael Schienke
Allan Kambindama        John Hagoplan            Michele Reaume
Arie Ruiter             Jordan Erickson           Natasha Timkovich-Camp
Becca Hamel             Kate Thayer              Noah Marino
Ceily Fessel Doan       Katie Bristol             Quelyn Bekkering
Daniel Trekas           Katie Kring               Rebekka Guyon
Denada Planaj           Kira Koboski              Sean Brick
Dyani Stewart           Korrina Young             Sienna Meekhoff
Elise Kindermann        Kyle Walker               Tyler Maiers
Evelyn Jobe             Maddy Anderla             Zach Daining
Hannah Hunt             Maisy Snyder              Zach Westphal

2.3 Chapter Sponsor

Dave Adler, CPG -11377  DAdler@Manniksmithgroup.com

2.4 Faculty Sponsor

Dr. Chad Deering      cddeerin@mtu.edu

2.5 Section President

Tim Woodburne, CPG
3. Chapter Activities

**September 16, 2017: Geoheritage Tour of the Keweenaw**

This event was organized by the Chapter Sponsor, Dave Adler. Geology narration was provided by Dr. William Rose, research professor at MTU, and history narration was provided by Larry Malloy, Keweenaw County Historical Society’s President. Fifteen members attended the trip which included stops at Central Mine, Eagle Harbor Lighthouse Complex, and Cliff Mine. At Cliff Mine several pieces of copper were found in the poor rock piles.

![Figure 1 Students at Central Mine Visitors Center](image1)

![Figure 2 Students, Dr. Bill Rose, and Larry Malloy overlooking Lake Superior at Eagle Harbor](image2)
Figure 3 Students listening to Dr. Bill Rose lecture on the adjacent basaltic lava flows

Figure 4 Students rock and mineral collecting at Cliff Mine
October 19, 2017: Officially Recognized Chapter

This meeting was called to announce AIPG’s recognition of the Michigan Tech Student Chapter. AIPG sent a $100 Visa Gift Card, banner, plaque, and official charter to Dr. Deering. A $100 donation was also made by the Chapter Sponsor. We discussed places to hang the banner and plaque. The Michigan Tech Geology Club invited AIPG on a field trip to Taylor Mine and Champion Mine to go rock and mineral collecting on October 28.

October 28, 2017: Field Trip to Taylor Mine and Champion with Geology Club

AIPG members joined the Geology Club in renting a Michigan Tech van to drive to the old open-pit iron mines located southeast of Houghton: Champion Mine in Champion, MI and Taylor Mine in Alberta, MI. The Champion Mine dump piles in the Marquette Iron Range are open for picking. Students collected specular hematite, garnet, and pyrite. At Taylor Mine several exciting pyrolusite specimens were found.

November 1, 2017: Sponsor Visit and Geology Jeopardy

This event was to celebrate becoming a chartered student chapter recognized by AIPG. Chapter Sponsor Dave Adler was present to talk about AIPG and to meet new members of the chapter. Faculty Sponsor Dr. Chad Deering was also present to meet student members and take photos with the group. A few photographs of the whole chapter were snapped. After official business was conducted, we played geology jeopardy created by Student Chapter President Andrew Dubay.

Figure 5 Students gathered with Faculty and Chapter Sponsors holding the new AIPG banner and plaque
December 13, 2017: Planning for Next Semester

This meeting focused on planning for the Spring 2018 semester. We brainstormed how to spend the $100 gift card from AIPG. For next semester we would like to bring one or two guest speakers to the group to make up for the lack of outdoor field trips in the winter. Possible speakers include Dave Adler, Chapter Sponsor, and Dr. Ted Bornhorst, Geology Professor at Michigan Tech and Executive Director of the A.E. Seaman Mineral Museum. It is imperative we devise a plan for sustaining the organization, as all the current E Board members will graduate by December 2018. The chapter currently only has undergraduate members, but we should begin advertising to expand our membership to include graduate students.

January 17, 2018: First Meeting of 2018

This meeting focused on purchasing a $100 metal detector with the gift card from AIPG. This metal detector will be used on rock and mineral collecting field trips.

January 31, 2018: Bad Geology Movie Night with Geology Club

AIPG teamed up with the Michigan Tech Geology Club to present a showing of Geostorm for Bad Geology Movie Night, a Michigan Tech Geology Club tradition. Before showing the movie, a student made it known she was interested in running for President of MTU’s AIPG Student Chapter. E Board members encouraged other students to send in their nominations for E Board positions. Elections will be held after Spring Break.
February 21, 2018: Sponsor Visit

Dave Adler, the chapter’s sponsor, was recruiting for his company, Mannik and Smith, at Michigan Tech’s Spring Career Fair. Dave gave a short presentation on his company and then we discussed the AIPG Student Chapter Conference Call. Only the Vice President was able to sit in on this call, and so he shared details of the call with the entire chapter. We discussed the possibility of a field trip to the Field Museum of Natural History in Chicago at the end of the semester. Another member spoke up about wanting to run for an E Board position.

March 21, 2018: Keweenaw National Historical Park Guest Speaker

An Americorp volunteer with the Keweenaw National Historical Park, Allan McTaggart, presented at this meeting. He gave a short presentation on the mining history of the Copper Country, and then talked about volunteer opportunities with the Keweenaw National Historical Park. Several students volunteered to help at the Spring Clean-Up at Quincy Mine on April 21. Volunteers will be given a free mine tour after a few hours of working around the site. Mr. McTaggart will reach out to our group again in the Fall to recruit volunteers for future events.

4. Member Activities:

Quelyn Bekkering: “This year I did a few interesting things:

1. The first week of fall semester classes, I traveled to Bowdoin College to work with Dr. Rachel Beane and use the scanning electron microscope in her department. I was collecting data for my petrology research on the Mount Princeton Batholith in southwestern Colorado, and we mapped different phases within my samples. It was a neat experience to work with such a powerful machine and expand my research knowledge base.

2. I attended the annual GSA conference in Seattle in late October. I received partial funding through the On To The Future (OTF) program. This was a great program to be a part of. OTF paired me with a mentor for the entirety of my time in Seattle, and I made so many connections through my mentor. I attended some great seminars and talks, which introduced me to different potential research interests for my master's work.

3. I also submitted my research poster to both the AIPG Michigan Section Student Poster Contest and the AGU Virtual Poster Showcase in late November. These were both great learning experiences regarding effective poster design and content, as well as presentation skills.”

Sean Brick: “I interned at Highland Copper in Ishpeming, MI during the summer of 2017. My job consisted of mineral prospecting and checking out old existing mine workings in the area.”

Andrew Dubay: “This summer I traveled to New Hampshire to do field work with the geology department. We did multiple seismic surveys both on the surface and down-borehole. The purpose
of the surveys was to find a bedrock fracture about 50 meters underground for hydrogeological purposes. After a few days of data collecting we had enough data to accurately locate the fracture.”

Hannah Koskiniemi: “I had an amazing time working at Navajo State Park in Arboles, Colorado. I worked with the public and helped them have fun and stay safe during their recreational activities while on the beautiful shores of Navajo Lake.”

Katie Kring: “Summer 2017 I worked as the Continuous Improvement Intern for Eagle Mine in Marquette, Michigan. In Spring 2018 I began my Senior Design capstone project, designing a gold mine in Northern Washington. Over Spring Break, my project team travelled to Republic, Washington to collect core samples from a core shed to be used in mineralogical and geotechnical analysis. I am also just beginning a research project with Eagle Mine to develop a three-dimensional model of rock quality designation (RQD). This project should be concluded by the end of Summer 2018.”

5. Secretary’s Report

As the Secretary of AIPG at Michigan Tech I was responsible for keeping meeting minutes to document each official meeting of the chapter. I then used the meeting minutes in developing this annual report, specifically Section 3, Chapter Activities. For Section 4, Member Activities, I reached out to the chapter members through email and in person to collect summary descriptions of activities members participated in individually throughout the year. After writing this report, it was reviewed and approved by the Chapter Executive Committee (see Section 7).

6. Treasurer’s Report

AIPG Student Chapter at Michigan Technological University
Summary of Expenditure for September 2017 – May 2018

September 2017 the student chapter began with funds of $0.00. Upon becoming official with AIPG National, AIPG Michigan Section and Michigan Technological University, the student chapter received a seed grant of $200.00 in October 2017. Food and beverages have been purchased for chapter meetings throughout the year. In January 2018, a metal detector was purchased for $110. The student chapter can provide a basic geophysical tool to execute subsurface techniques; particularly in cooperation with the Geology Club at MTU that opens prospecting trips to all AIPG Student Chapter members. In April the University hosts a Spring Fling event for student organizations. Approximately $20 will go towards materials for the AIPG Student Chapter booth that promotes the student chapter and recruits more members. The
Student Chapter does not enforce membership fees; hence fundraising and scholarships will be necessary to support the Student Chapter for this summer and following academic year.

7. Attest the report has been approved by the Chapter Executive Committee

The Chapter Executive Committee approves this report as indicated by their signatures on the cover page.