

Curriculum Vitae

Personal Information

Name: Austin Gion

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Education

2017 M.S. in Geology, University of Maryland

2015 B.S. in Geology, Wichita State University

2014 International Study, University of Sydney

Employment

2015 Geotech for Independent Exploration Geologist, Wichita, KS

2013 -2015 Geological Data Integrator, Kansas Geological Foundation,
Wichita, KS

Research Groups

2016-Present Research assistant, Laboratory for Mineral Deposits Research,
University of Maryland, MD, USA

2014-2017 EarthByte Group, University of Sydney, Sydney, Australia

2014 Centre for Research on Ecological Impacts on Coastal Cities,
University of Sydney, Sydney, Australia

Professional Organizations

American Geophysical Union

Prospectors and Developers Association of Canada

Geologic Society of America

American Association for Petroleum Geologist

Kansas Geological Foundation

Society of Economic Geologists

Publications in Refereed Journals

1. Gion, A. M., Williams, S. E., and Muller, R. D., 2017, A reconstruction of the Eurekan Orogeny incorporating deformation constraints: *Tectonics*, v. 36, doi:10.1002/2015TC004094.

Abstracts and Presented Works

1. Gion, A. M., Candela, P. A., and Piccoli, P. M., 2017, Experimental Geochemistry and Modeling as an Aide to Exploration: An Indium Case Study: Geological Society of America Abstracts with Programs, Seattle, Washington, v. 49, no. 6, doi:10.1130/abs/2017AM-306392
2. Gion, A. M., Williams, S. E., and Muller, R. D., 2017, Modelling and visualizing distributed compressional plate deformation using GPlates2.0: The Arctic Eurekan Orogeny: EGU General Assembly, Vienna, Austria.
3. Gion, A. M., Piccoli, P. M., and Candela, P. A., 2017, From Lab to Lode: Applications of Experimental Geochemistry to Mineral Exploration with Reference to Indium: Student Mineral Colloquium, Prospectors and Developers Association of Canada, Toronto, Canada.
4. Gion, A. M., Piccoli, P. M., Candela, P. A., and Nance, J. R., 2016, Indium In Ferromagnesian Minerals: An Experimental Study: Geological Society of America Abstracts with Programs, v. 48, no. 7, doi:10.1130/abs/2016AM-286546
5. Gion, A. M., Piccoli, P. M., Candela, P. A., and Nance, J. R., 2016, Partitioning of Indium Between Biotite and Felsic Melts: Pan-American Current Research on Fluid Inclusions Conference, Columbia, Missouri.
6. Gion, A. M., Williams, S. E., and Muller, R. D., 2015, The Wegener Fault revisited: Building a deforming plate model for the Eurekan Orogeny: GeoBerlin Dynamic Earth – from Alfred Wegener to today and beyond, Berlin, Germany.

Reviewing Activities

Ore Geology Reviews

Service

2018: Assisted with visit of 3rd grade class visit to UMD

2018: Liaison between graduate students and faculty during new hire search

2016/2017: Volunteer at Maryland Day (the University of Maryland's yearly open house)

Awards

PDAC Travel Award – PDAC Conference 2017
ESSIC Travel Award – Spring 2016, 2017 and Fall 2016, 2017
GSA Northeastern Travel Grant – GSA 2016 and GSA 2017
Kansas Geological Foundation Preservation Award – 2016

Teaching

GEOL 445: High Temperature Geochemistry Lab

The role of this course is to teach students Earth and Solar system forming processes. The topics included in this class include nucleosynthesis, element partitioning, thermodynamics, phase relations, radiogenic isotopes, and geochronology. The laboratory section was concerned with applying these topics to scenarios that students will likely face as they continue with high-level scientific research, such that they might encounter during the course of their Senior Thesis.

Taught Fall 2016, enrollment 6

GEOL 322: Mineralogy Lab

The role of this course is to introduce undergraduate students to crystallography, basic mineralogy, and crystal chemistry. The laboratory section involved teaching students how to identify minerals in hand samples, understand crystal symmetry, crystal morphology, and basic mineral chemistry.

Taught Spring 2017, enrollment 21

GEOL 443: Petrology Lab

The role of this course is to teach undergraduate students the principles of igneous and metamorphic petrology. The laboratory section consisted of describing igneous and metamorphic rock and their significance. Students were required to describe the textures and minerals present in both hand samples and thin section.

Taught Spring 2018, enrollment 17

Field Camp Prep Course

This course was designed by graduate students to provide guidance to undergraduates who are preparing for field camp. The course consisted of three meetings where students were introduced to the expectations of field camp and were able to practice basic field mapping skills. My role involved teaching and co-organizing.

Taught Spring 2016/18, ~10 Students per year

Advising

Senior Thesis Students

My primary role for the following students was assisting the students and their primary advisor with fieldwork and explanation of geochemical concepts.

Fall 2016 and Spring 2017, Luke Councill – Formation of Virginia Unakite

Spring 2017, Rhobeca Oliveros – “Fractionation of Lemberg Dome Dyke”

Spring 2017, Joe Browning – “Tourmaline in the Setter’s Formation”

Undergraduate Honors Projects

GEOL 322: Spring 2017, Gwen Sullivan – “Solid Solution Minerals in North Carolina Eclogites”, My role was conducting geochemical analysis using the electron microprobe.