

# Erik Lloyd Haroldson

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## Education

University of Wisconsin-Madison

2017

**PhD** in Geoscience

Dissertation: Protracted development of the Reef Deposit: an anomalous Au-Cu occurrence in northern Wisconsin

University of Wisconsin-Madison

2014

**MS** in Geoscience

Thesis: Fluid inclusion and stable isotope study of Magino; a magmatic related Archean gold deposit

University of Minnesota-Duluth

2006

**BS** in Geological Sciences, Minor: Geography

UROP research project: Determination of Ni concentration in Pyrrhotite/Olivine using reflective light microscopy and Electron Microprobe

## Professional Positions

**Assistant Professor**, California State University, Sacramento, Sacramento, CA

2024-present

GEOL 5 – Geology of Mexico

GEOL 100 – Earth Materials

GEOL 101 – Optical Mineralogy

GEOL 189 – Geology Colloquium

**Associate Professor**, Austin Peay State University, Clarksville, TN

2022-2024

APSU 1000 – Freshman Seminar

HONS 1045 – Foundations of Interdisciplinary Thinking - Geologic Puzzles

GEOL 1040 – Physical Geology w/lab

GEOL 1050 – Historical Geology

GEOL 3500 – Mineralogy w/lab

GEOL 3600 – Petrology w/lab

GEOL 4550 – Earth's Resources and the Environment

Earth Explorers - 1-week Summer Camp for Middle School Aged Students

**Faculty**, Wasatch-Uinta Field Camp, Park City, UT

Summer 2022

**Assistant Professor**, Austin Peay State University, Clarksville, TN

2018-2022

GEOL 1040 – Physical Geology w/lab

GEOL 3500 – Mineralogy w/lab

GEOL 3600 – Petrology w/lab

GEOL 3680 – Principles of Geochemistry

GEOL 4500 – Laboratory Research Project

GEOG 3930 – Hazards in the Environment

**Associate Lecturer**, University of Wisconsin-Baraboo (UW Colleges), Baraboo, WI

2017-2018

Erik Haroldson – Curriculum Vita

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rev. 12/10/2025

- GLG 101 – Physical Geology (w/ lab)
- GLG 135 – Introduction to Environmental Geology
- GLG 102 – Historical Geology (w/lab)
- GLG 170 – Disasters-Living on the Edge
- GEO 106 – Introduction to Geographic Information Science (w/lab)

**Teaching/Research Assistant**, University of Wisconsin-Madison, Madison, WI

Geosci 360; Mineralogy	Fall 2014, 2015, 2017
Geosci 370; Elementary Petrology	Spring 2015, 2016, 2017
Geosci 459; Wasatch-Uinta Field Camp	Summer 2015, 2016, 2017
Geosci 457; White Lake – 1 Week Field Mapping Course	Spring 2014, 2015, 2016
Geosci 350; Global Geophysics	Spring 2013

**Acquisition Manager**, Argonaut Gold Inc., Ontario, Canada      Summer 2013  
Evaluate exploration acquisition opportunities  
Geological consultant on company exploration projects

**Project Manager/Senior Geologist**, Prodigy Gold Inc., Ontario, Canada      2008 – 2013  
Promoted from Project Geologist through to Project Manager  
Manager of two company flagship projects  
Mapping, 3D modeling, core logging, budgeting, hiring, mentoring

**Geologist**, US Gold Corp., Elko, NV, USA and Guamuchil, Sinaloa, Mexico 2006 - 2008  
Promoted from Junior Geologist to Geologist  
Developed regional resource projects in Nevada and Mexico  
Drill rig management, mapping, core and chip logging, database management

**Geologist**, Polymet Mining Inc., Hoyt Lakes, MN, USA      Summer 2005  
RQD and geotechnical core logging  
Drill core sampling  
Outcrop mapping, drill site location

**Field Technician**, STS Consultants, Minneapolis, MN, USA      Summer 2004  
ASTM tests on concrete, soil and bitumen  
Soil boring rig assistant

## Publications

## **PEER-REVIEWED PUBLICATIONS**

1. **Haroldson, E.L.**, 2022, *Improv games in geoscience courses*, Journal of Geoscience Education, vol. 70, iss. 2, p. 195-207. [\[Link to article\]](#)
2. Liu, J.C., Johnson, E.A., **Haroldson, E.L.**, 2021, *Blending Geoscience Laboratory Learning and Undergraduate Research with Interactive Open Educational Resources*, in Picciano, A.G., Dziuban, C.D., Graham, C.R., and Moskal, P.D., (Eds.), Blended Learning: Research Perspectives, volume 3, chapter 19, 18 p. [\[Link to book\]](#)
3. Klyukin, Y.I., **Haroldson, E.L.**, and Steele-MacInnis, M., 2020, *A comprehensive numerical model for the thermodynamic and transport properties of H<sub>2</sub>O-NaCl fluids*, Chemical Geology, vol. 557, p. 1-10, article 119840, [\[Link to article\]](#)

4. **Haroldson, E.L.**, Brown, P.E., Ishida, A., and Valley, J.W., *SIMS oxygen isotopes indicate Phanerozoic fluids permeated a Precambrian gold deposit*, Chemical Geology, vol. 533, p. 1-17, article 119429, [[Link to article](#)]
5. **Haroldson, E.L.**, Brown, P.E., and Bodnar, R.J., 2018, *Involvement of variably-sourced fluids during the formation and later overprinting of Paleoproterozoic Au-Cu mineralization: Insights gained from a fluid inclusion assemblage approach*, Chemical Geology, vol. 497, p. 115-127, [[Link to article](#)]
6. **Haroldson, E.L.**, Beard, B.L., Satkoski, A.M., Brown, P.E., and Johnson, C.M., 2018, *Gold remobilization associated with Mississippi Valley-type fluids: a Pb isotope perspective*, Geological Society of America Bulletin, vol. 130, no. 9–10, p. 1583–1595, [[Link to article](#)]

## **POPULAR ARTICLES**

**Haroldson, E.**, Wolak, J., Van Boening, A., and Pattat, A., 2020, 40 years of building networks, knowledge, and skills through friendly competition: the Tennessee Geoconclave, In The Trenches, vol. 10, no. 1, p. 2-5, [[Link to article](#)]

## **OPEN EDUCATIONAL RESOURCES**

**Haroldson, E.**, 2021, Physical Geology Lecture Tutorials (3<sup>rd</sup> Edition), [[Link to resource](#)]

**Haroldson, E.**, 2021, Physical Geology Lecture Tutorials (2<sup>nd</sup> Edition), [[Link to resource](#)]

**Haroldson, E.**, 2020, Physical Geology Lecture Tutorials (1<sup>st</sup> Edition), [[Link to resource](#)]

## **PROFESSIONAL REPORTS**

**Haroldson, E.**, 2012, Report on the Magino property 2011 diamond drilling program, Timmins Mining Division, Ontario, 26 p.

**Haroldson, E.**, 2010, Diamond drill program on the Hercules Project, Ontario Thunder Bay Mining Division NTS 42E13SE, 37 p.

## **Meeting Abstracts** (\* indicates student co-author)

\*Scrivner, J.D., Haroldson, E.L., Satkoski, A., 2025, Ore Fluid Source and Timing Using In Situ Pb Isotopes on Nevada County, California Gold in the Sierra Nevada Foothills, Geological Society of America Abstracts with Programs, vol. 57, no. 6, doi: <http://dx.doi.org/10.1130/abs/2025AM-9189>

\*Sigears, T., Haroldson, E.L., Kurka, M., Slang, S., Houdek, J., and Jancalek, J., 2024, Investigating a linear spatial arrangement of historic iron furnaces across middle Tennessee using slag glass as a proxy, Geological Society of America Abstracts with Programs, vol. 56, no. 5, doi: <http://dx.doi.org/10.1130/abs/2024AM-402288>

\*Donegan, M., \*Boddy, D., Satkoski, A., and Haroldson, E., 2023, Mineralogy and radiogenic isotopes of the Seven Mile Bluff prospect: an investigation of a surface Mississippi Valley-type deposit in central Tennessee, Geological Society of America Abstracts with Programs. Vol. 55, No. 6, <https://doi.org/10.1130/abs/2023AM-391676>

Haroldson, E., Satkoski, A.M., Lukoczki, G., and Clendening, R., 2023, Preliminary investigation of radiogenic isotopes of Mississippi Valley-type mineralization across central Tennessee and Kentucky, Geological Society of America Abstracts with Programs, Vol. 55, no. 6, <https://doi.org/10.1130/abs/2023AM-391723>

\*Lovings, A., Haroldson, E., Deibert, J., Kurka, M., and Mahlovanyi, B., 2023, Analysis of 11 Ma Cougar Point Tuff unit XIII, Knoll Basin, NE Nevada using XRD, SEM, Micro-XRF, FTIR, and Raman, Geological Society of America Abstracts with Programs. Vol. 55, No. 6, <https://doi.org/10.1130/abs/2023AM-394736>

\*Boddy, D., Satkoski, A.M., and Haroldson, E.L., 2022, Mineralogy and Radiogenic Isotopes of a newly identified zinc vein near Russellville, Kentucky, Geological Society of America Abstracts with Programs. Vol. 54, No. 5, <https://doi.org/10.1130/abs/2022AM-383700>

\*Hanson, W., \*Boddy, D., Satkoski, A.M., and Haroldson, E.L., 2022, Mineralogy and Radiogenic Isotopes of the Bell-Orren prospect: a Mississippi Valley-type surface veins in central Tennessee, Geological Society of America Abstracts with Programs. Vol. 54, No. 4, <https://doi.org/10.1130/abs/2022NC-375591>

Haroldson, E.L., Wathen, B., Jicha, B., Singer, B., Lundin-Schiller, S., and Schilling, M.M., 2022, 500 Ma K-spar micro-veins in mid-continent Precambrian basement: implications for potassium metasomatism, Geological Society of America Abstracts with Programs. Vol. 54, No. 5, <https://doi.org/10.1130/abs/2022AM-381813>

Haroldson, E.L., 2021, *Improv games in geoscience courses*, Geological Society of America Abstracts with Programs, vol. 53, no. 6, <https://doi.org/10.1130/abs/2021AM-363963>

\*Vogelpohl, A., \*Benoit, J., Kohl, M., Haroldson, E., 2020, *Fluid and solid inclusions in the Mosheim Anticline occurrence of East Tennessee Field Diamonds (quartz crystals)*, Geological Society of America Abstracts with Programs, vol. 52, no. 2, <https://doi.org/10.1130/abs/2020SE-344560> accepted but not presented due to covid-19

\*Wells, J., Haroldson, E., 2020, *Sources for mineralization in Kentucky Dam: implications for dam stability*, Geological Society of America Abstracts with Programs, vol. 52, no. 2, <https://doi.org/10.1130/abs/2020SE-345009> accepted but not presented due to covid-19

Casey, M., Haroldson, E., Pattat, A., Van Boening, A., Wolak, J., Gibson, M.A., 2020, *Celebrating 40 years of Tennessee Geoconclave: building skills for the future*, Geological Society of America Abstracts with Programs, vol. 52, no. 2, <https://doi.org/10.1130/abs/2020SE-344427> accepted but not presented due to covid-19

Haroldson, E., Kohl, M., 2020, *Fluid and solid inclusions in East Tennessee Field Diamonds (doubly terminated quartz crystals)*, Geological Society of America Abstracts with Programs, vol. 52, no. 2, <https://doi.org/10.1130/abs/2020SE-345076> accepted but not presented due to covid-19

Haroldson, E., 2018, *Our time around the lake: a hiking tour historical geology group project*, Geological Society of America Abstracts with Programs, vol. 50, no. 6, paper no. 178-1, <https://doi.org/10.1130/abs/2018AM-323397>

Haroldson, E.L., Brown, P.E., Bodnar, R.J., 2018, *Assorted roles of diverse variably-sourced fluids during the protracted formation history of a Au-Cu deposit: a fluid inclusion assemblage perspective*, Geological Society of America Abstracts with Programs, vol. 50, no. 6, paper no. 243-5, <https://doi.org/10.1130/abs/2018AM-324304>

Haroldson, E., Brown, P., Ishida, A., Valley, J., 2017, *Phanerozoic fluids permeating a Precambrian gold deposit examined by SIMS: Implications for remobilization of gold*, Geological Society of America Abstracts with Programs, vol. 49, no. 6, paper no. 2-4, <https://doi.org/10.1130/abs/2017AM-305949>

Haroldson, E., Valley, J., Bodnar, R., Ishida, A., Brown, P., 2017, *Fluid history of the Reef Deposit using fluid inclusions and oxygen isotopes*, Proceedings and Abstracts - Institute on Lake Superior Geology Meeting 63, p. 40-41

Haroldson, E., Beard, B., Satkoski, A., Johnson, C., Brown, P., 2016, *Phanerozoic Au in a Paleoproterozoic Cu Vein deposit of Central Wisconsin; Evidence from Pb Isotopes Using LA-ICP-MS*, Geological Society of America Abstracts with Programs, vol. 48, no. 7, paper no. 212-13, <https://doi.org/10.1130/abs/2016AM-281534>

Haroldson, E., Brown, P., 2016, *Cathodoluminescence imaging and fluid inclusions of the Reef deposit, a Paleoproterozoic Au-Cu occurrence in central Wisconsin, USA*, PACROFI XIII, The Edwin W. Roedder, Pan-American Current Research On Fluid Inclusions Conference, p. 57-58

Haroldson, E., Beard, B., Satkoski, A., Johnson, C., Brown, P., 2016, *U-Th-Pb isotopes of the Reef Deposit; a Au-Cu occurrence in central Wisconsin*, Proceedings and Abstracts - Institute on Lake Superior Geology Meeting 62, p. 60-61

Haroldson, E., Brown, P., 2015, *Magmatic Fluids are a Primary Source of Archean Gold at Magino; Fluid Inclusion and Stable Isotope Evidence*, Geological Society of America Abstracts with Programs, vol. 47, no. 7, p. 519, paper no. 206-14, <https://gsa.confex.com/gsa/2015AM/meetingapp.cgi/Paper/264488>

Haroldson, E., Brown, P., 2014, *Magmatic Fluids are a Primary Source of Archean Gold at Magino; Fluid Inclusion and Stable Isotope Evidence*, Programs and Abstracts - PACROFI XII, 12<sup>th</sup> Biennial Conference, Pan-American Current Research On Fluid Inclusions, p. 63-64

Haroldson, E., Brown, P., 2013, *Fluid Inclusion study of the Magino Archean Gold Deposit; Implications for Regional Mineralizing Systems*, Proceedings and Abstracts - Institute on Lake Superior Geology Meeting 59, p. 31-32

## Invited Presentations

<i>Sacramento Science on Tap: Critical Metals</i> California Groundbreakers	2025
<i>The Geology of Climate Change: How we're going to dig ourselves out</i> Science on Tap, APSU Community Speaker Series	2023
<i>Geology at Austin Peay State University</i> Uniwersytet Rzeszowski, Poland, Seminar Series	2023
<i>Lead Isotopes: Teaching an old dog new tricks</i> Montanuniversität Leoben, Austria, Seminar Series	2023
<i>Lead Isotopes: Teaching an old dog new tricks</i> James Madison University, Virginia, Seminar Series	2021
<i>Protracted development of a gold (Au) deposit</i> Murray State University, Kentucky, Seminar Series	2019
<i>Geology of the Baraboo Region</i> UW-Baraboo/Sauk County, Adam's-Friendship township student campus visit	2018
<i>Geological Resources and Mining</i> UW-Baraboo/Sauk County, BIO 190: Introduction to Environmental Science Guest Lecture	2017
<i>Exploring the Exploration Career Track</i> UW-Madison undergraduate geoclub monthly meeting	2017
<i>Evolution of Western Continental United States and Exploration in Nevada by US Gold Corporation</i> , 2007 Geological Society of Nevada; Elko Chapter Monthly Meeting	2007
<i>Exploring for Gold in the 21st Century</i> , Public Seminar Series: University of the Pacific Geosciences Department	2007

## **Short Courses/Workshops/Trainings**

### **INSTRUCTOR**

*Safe Zone training* 2021  
APSU CoAL Training – Barbara Gray, Erik Haroldson

*Safe Zone training* 2021  
APSU CoSTEM Virtual Training – Cathy Gatewood-Keim, Erik Haroldson, Kallina Dunkle

### **ATTENDEE**

*Methods and Applications in (U-Th)/He Thermochronology* 2025  
Geological Society of America Annual Meeting – Kendra Murray, Leah Morgan, Mauricio Ibañez-Mejia

*Methods and Geological Applications in Geo-Thermo-Petro-Chronology* 2025  
Geological Society of America Annual Meeting – Dan Alberts, Martin Senger, Michelle Foley

*Introduction to Field Safety Leadership* 2023  
Geological Society of America Annual Meeting - Greer Barriault, Kevin Bohacs, and Kurtis Burmeister

*Teaching Petrology 2023* 2023  
Smith College (NSF funded) – John Brady, Sarah Mazza, Clem Hamelin, Heather Petcovic

*Metals, Sustainability, and Society; The Importance of Economic Geology* 2022  
Society of Economic Geologists – John Thompson, Sarah Gordon

*Teaching Earth Science with Interactive Maps* 2021  
National Association of Geoscience Teachers - Dr. Tom Baker, Dr. Joseph Kerski, Charlie Fitzpatrick

*Teaching your upper-level course online: A Community Collaboration to build robust online Geoscience courses* 2020  
Earth Educator's Rendezvous - Karen Viskupic, Anne Egger, Jennifer Wenner

*Early Career Geoscience Faculty Workshop* 2019  
Science Education Resource Center (SERC) - Tessa Hill, Sarah Penniston-Dorland, Josh Galster, Anantha Aiyyer, Jennifer Anderson, Andrew Goodliffe, Cynthia Hall, Kaatje Kraft, Benjamin Laabs, Martin Wong, Carol Ormand

*Broadening Participation of Underrepresented Minorities in Geosciences* 2019  
Earth Educator's Rendezvous – Jessica Oster, De'Etra Young, Lily Claiborne

*Advancing Diversity, Equity, and Inclusion to Strengthen the Geoscience Community* 2018  
AGU Annual Meeting – Kuheli Dutt, Ben Keisling, Gari Mayberry, Wesley Henson, Sharon Cooper, Deb Morrison, Heidi Steltzer

*Best Practices for Modern Open-Source Research Codes* 2018  
AGU Annual Meeting – Leonardo Uieda, Lion Krischer, Lindsey Heagy, Florian Wagner

*Pangeo: Scalable Geoscience Tools in Python* 2018

AGU Annual Meeting – Ryan Abernathy, Joe Hamman, Scott Henderson

*Establishing and Sustaining an Undergraduate Research Program* 2018  
AGU Annual Meeting – Lydia Fox, Pat Manley, Meagen Pollock, Jeff Ryan

*Bringing Geoscience Practices into the Classroom: Developing Students Skills* 2018  
AGU Annual Meeting – Anne Egger, Laura Rademacher

*Engaging Environmental Justice in Geoscience Courses* 2018  
AGU Annual Meeting – Sarah Fortner, Richard Gragg, Rob Rohbaugh, Cathy Manduca

*Storyboarding Your Science: Creating Engaging, Effective Communication* 2018  
AGU Annual Meeting – David Rogers, Francesca Samsel, Matteo Farinella, Celia Gurney

*Analytical Methods in Geoscience (AMiGEO): Open Education Resources Modules for Lab Instr.* 2018  
AGU Annual Meeting – Elizabeth Johnson, Juhong Christie Liu

*NSF Funding Opportunities and Merit Review* 2018  
GSA Annual Meeting – Margaret Frasier

*Social Media for Scientists 101* 2018  
GSA Annual Meeting – Wendy Bohon, Beth Bartel, Justin Samuel

*RISE: Harassment Resistance and Active Bystander Intervention* 2018  
GSA Annual Meeting – Sherry Marts

*Helping Students Thrive in Geosciences at Two-Year Colleges: Selected Strategies* 2017  
GSA Annual Meeting – Norlene Emerson, Eric Baer

*BIAS training workshop* 2017  
UW-Madison Graduate School – Patricia Devine, William Cox

*Ethics on the Edge: Scientific Integrity and Geoethics for a Changing World* 2016  
GSA Annual Meeting – Linda Gunderson, David Mogk

*Exploration Targeting in a Business Context* 2011  
Mineral Exploration Roundup – Steve Bussey, Jon Hronsky, Brad Margeson

*Gemcom GEMS (mining software) training* 2009  
Modules: Foundations, Geologic Modeling, Resource Modeling  
In-House company sponsored

*Carbonate Sequence Stratigraphy* 2006  
In-House company sponsored – Harry Cook

## **Awards**

### **EXTERNAL**

National Science Foundation: IRES Track I: RUI: Involving US undergraduates in interdisciplinary research at specialized EU nanotechnology and glass science sites on development of novel 2021

amorphous materials (Senior Personnel, \$299,979)		
American Chemical Society Petroleum Research Fund Undergraduate New Investigator (\$55,000)	2020	
Geological Society of America – Graduates Student Research Grant (\$2,000)	2015	
Society of Economic Geologists – Canada Foundation – Graduates Student Research Grant (\$3,000)	2015	
Society of Economic Geologists – Canada Foundation – Graduates Student Research Grant (\$2,000)	2013	
Prodigy Gold Inc. - Graduate Tuition and Research Grant (\$52,000)	2012	

### ***INTERNAL***

Socrates Award for Excellence in Teaching (\$1,000) [ <a href="#">Link to Website</a> ]	2023
Supporting Student Travel to the Geological Society of America Annual Meeting	2023
Student Access and Success Initiative (\$6,074)	
Raspberry Shake(up) of student and community engagement and learning	2023
Technology Access Fee (TAF) Faculty Technology Innovation Grant (\$910)	
Increasing Student Engagement and Performance in the Geosciences	2022
Student Access and Success Initiative (\$1,000)	
Increasing Student Engagement and Performance in the Geosciences	2021
Student Access and Success Initiative (\$1,000)	
Microscope Heating/Freezing stage	2019
Technology Access Fee (TAF) Faculty Technology Innovation Grant (\$25,000)	
Geoconclave: A Geoscience competition and networking opportunity	2019
Student Access and Success Initiative (\$2,580)	
APSU Distance Education Travel Stipend (\$2,500)	2018
UW-Baraboo/Sauk County Professional Development grant (\$333)	2017
UW-Madison Graduate School Student Research Grant (\$600) - Conference Presentation Funds	2017
Mark and Carol Ann Solien Research Assistantship	2015
UW-Madison Graduate School Student Research Grant (\$1,200) - Conference Presentation Funds	2015
Robert L. Heller Scholarship	2006
Robert C. Bright Scholarship	2006

### **Service**

#### ***CAMPUS***

CSUS Curriculum Subcommittee	2025-present
APSU General Education Committee	2023-present
APSU CoSTEM Diversity Committee	2023-present
GeoClub Faculty Advisor	2018-present
APSU Space Allocation Committee	2022-2023
APSU Diversity Committee (Chair 2021-2022)	2019-2022
APSU CoSTEM Diversity Committee	2020-2021
Hiring Committee – APSU EEO/ADA Resource Officer	2020
Appointments Committee – UW-Baraboo/Sauk County	2017-2018
Hiring Committee - UW-Baraboo/Sauk County	2018
Faculty Liaison - Geoscience Graduate Student Association (GGSA)	2016-2017
Booth Presenter - UW Geology Museum, Madison Gem and Mineral Show	2013
Booth Presenter - UW Geology Museum, A Night at the Museum	2013
Field Trip Committee - Geoscience Graduate Student Association (GGSA)	2013

#### ***DISCIPLINE***

Chemical Geology, solicited manuscript reviewer	2023-present
Marine and Petroleum Geology, solicited manuscript reviewer	2022-present

American Mineralogist (Mineralogical Society of America), solicited manuscript reviewer	2020-present
Economic Geology (Society of Economic Geologists), solicited manuscript reviewer	2020-present
Geological Magazine (Cambridge University Press), solicited manuscript reviewer	2020-present
Ore Geology Reviews (Elsevier), solicited manuscript reviewer	2018-present
Resume Clinic Mentor – GSA Annual Meeting	2025
Roundtable Mento – GSA Annual Meeting	2025
Resume Clinic Mentor – GSA Annual Meeting	2023
Drop-in Mentor – GSA Annual Meeting	2023
Roy J. Shlemon Mentors in Applied Geology Program Mentor – GSA SE/NC regional meeting	2022
Geoscience Career Exploration Workshop Panelist – GSA SE/NC regional meeting	2022
Undergraduate Poster Presentation Judge – GSA SE/NC regional meeting	2022
Outstanding Student Paper Awards (OSPA) Judge – AGU Annual Meeting	2018
Seismology/Geodesy Early Career Luncheon Mentor – AGU Annual Meeting	2018
GeoCareers Day Roundtable Mentor – GSA Annual Meeting	2018
Resume Clinic Mentor – GSA Annual Meeting	2018
Rock ID Event Coordinator – Annual Tenn. State Parks Geology Conclave	2019
Rock ID Event Coordinator – Annual Tenn. State Parks Geology Conclave	2018
Society of Economic Geologist Special Session Chairperson – North American Miners Asst. Meeting	2007

## **COMMUNITY**

STEMM Day Gold Panning Booth, Thomas Edison Language Institute	2025
Geology of Middle TN – Presentation and sinkhole mapping with APSU Middle College students	2023
APSU Geoscience and TN MVT research – Presentation to Middle Tennessee Rockhounds	2022
Geology of Middle TN – Presentation and sinkhole mapping with APSU Middle College students	2022
Mineral Bingo - Kenwood Middle School 8 <sup>th</sup> Graders on-campus visit	2020
Science of Geology and Hotspots - Kenwood Middle School 8 <sup>th</sup> Graders on-campus visit	2019
Instructor – APSU STEM Education Professional Development workshop	2019
Instructor - APSU Middle School Lead Teacher Professional Development Workshop	2019
Geology and Volcanoes – invited visit to Carmel Elementary 4 <sup>th</sup> graders	2018
President – Rocky Bluff Neighborhood Association	2014-2018
National Alliance on Mental Illness (NAMI) Walks - Dane County	2012-2016
Project Homeless Connect - Saint Paul, MN	2010

## **Certification/Licensure**

Professional Geologist (PG)	2025-Present
California Board of Professional Engineers, Land Surveyors, and Geologists, License 10494	
Professional Geoscientist (P.Geo)	2013-2016
Association of Professional Geoscientists of Ontario, License 2297	

## **Memberships**

Society of Economic Geologists – Fellow (SEG)
Geological Society of America (GSA)
Society for Geology Applied to Mineral Deposits (SGA)
Mineralogical Society of America (MSA)
National Association of Geoscience Teachers (NAGT)
Geological Society of Nevada (GSN)