

Adam Charles Simon
Department of Earth and Environmental Sciences
University of Michigan
Ann Arbor, MI 48109-1005
E-mail: simonac@umich.edu
Phone: (734) 647-4245

EDUCATION

2003 – 2005 Postdoctoral Fellow, Earth & Planetary Sciences, The Johns Hopkins University
2000 – 2003 PhD, Geology, University of Maryland
1995 – 1997 M.S., Earth & Space Sciences, Stony Brook University
1992 – 1995 B.S., Geology, University of Maryland

PROFESSIONAL POSITIONS

2018- Professor, University of Michigan, Earth & Environmental Sciences
2012 – 2018 Associate Professor, University of Michigan, Earth & Environmental Sciences
2011 – 2012 Associate Professor, University of Nevada, Las Vegas, Geosciences
2005 – 2011 Assistant Professor, University of Nevada, Las Vegas Department of Geosciences
2004 – 2005 Postdoctoral Fellow, The Johns Hopkins University Earth and Planetary Sciences
2003 – 2004 Research Associate, University of Maryland Department of Geology

HONORS/AWARDS

2017 University of Michigan Provost's Teaching Innovation Prize (one of 5 campus wide)
2017 Best Professor, selected by department undergraduate and graduate students
2016 Best Professor, selected by department undergraduate and graduate students
2015 Elected as a Fellow of the Society of Economic Geology
2012 Graduate and Professional Student Association, Outstanding Contribution Award, UNLV
2010 Distinguished Teacher Award for College of Sciences, UNLV
2009 Graduate and Professional Student Association, Faculty Service Award, UNLV
2006 Antarctica Service Medal

PROFESSIONAL SERVICE (panels, editorial duties, professional society duties)

2018 National Science Foundation Graduate Research Fellowships Panel
2017 U. of Michigan Ross Business School, Renewable Energy Case Competition, judge
2017 – present Associate Editor, Frontiers in Earth Science
2017 Society of Economic Geologists Awards Committee
2017 Estonian Research Council, Grant Proposal Reviews
2017 National Science Foundation postdoctoral fellowship review panel
2017 National Sciences and Engineering Council of Canada (NSERC) panel
2016 – present Associate Editor, Journal of Economic Geology
2016 Tenure and Promotion review for University of Leuven (KU Leuven), Belgium
2016 Spring Panel, National Science Foundation, Petrology and Geochemistry
2016 Reviewed proposals for England's National Environmental Research Council (NERC)
2016 Reviewed proposals for the National Science and Engineering Research Council of Canada (NSERC)
2016 Fall Panel, National Science Foundation, Petrology and Geochemistry Panel
2016 – 2018 Councilor, Society of Economic Geologists (elected position; global governing board)
2016 Reviewer for Fellowship Program at the Wissenschaftskolleg zu Berlin, Institute for Advanced Study
2016 Co-chair responsible for organizing all technical sessions in Theme 11: Mineral Resources, 2016 Goldschmidt Conference in Yokohama, Japan (Keiko Hattori, Co-chair)

2014 – present Faculty sponsor, Student Chapter of Society of Economic Geologists
 2014 – present Faculty sponsor, Student Chapter of American Association of Petroleum Geologists
 2014 Organized and convened technical session for AGU Fall Meeting
 2014 Co-chair responsible for organizing all technical sessions in Theme 11: Mineral Resources, 2014 Goldschmidt Conference (Holly Stein, Co-chair)
 2013 National Science Foundation Graduate Fellowship Review Panel
 2012 Organized and convened one technical session for AGU Fall Meeting
 2012 Gordon Conference Geochemistry of Mineral Deposits, Session Organizer/Chair
 2011 National Science Foundation Graduate Fellowship Review Panel
 2010 Reviewer for NSF Engineering Research Centers
 2010 Convened Pan-American Current Research on Fluid Inclusions (PACROFI), UNLV
 2010 National Science Foundation Graduate Fellowship Review Panel
 2010 Geological Society of American Session Convener
 2008 National Science Foundation Petrology and Geochemistry Review Panel
 2009 Reviewer for NSF Engineering Research Centers
 2009 Geological Society of American Session Convener
 2008 AGU Fall Meeting Session Convener
 2008 GSA Cordilleran Sectional Meeting Session Convener
 2007 AGU Fall Meeting Session Convener
 2006 Chemical Geology, Guest Editor for Special Issue on Subduction Zone Geology
 2006 AGU Spring Meeting Session Convener
 2005 AGU Fall Meeting Session Convener
 2005 Goldschmidt Session Convener
 2002 GSA Annual Meeting Session Convener
 2001 AGU Spring Meeting Session Convener

UNIVERSITY SERVICE

2017 – 2018 University of Michigan Energy Institute, Director search committee
 2017 Co-chair, Committee responsible for the transition of the undergraduate Program in the Environment (PiTE) program to shared governance between School for Environment and Sustainability, and College of Literature, Science and the Arts
 2017 – 2018 President Schlissel's Committee on Greenhouse Gas Reduction
 2016 – 2017 Curricular Innovations Working Group, developing graduate curriculum recommendations for UM's new School of Environment and Sustainability (SEAS)
 2016 – 2017 Michigan Sustainability Case Studies (MSC) curriculum review committee
 2016 – 2017 Committee responsible for 5-year review of the University of Michigan Energy Institute
 2016 Member, Program in The Environment (PiTE) committee to revise Natural Sciences major
 2016 T & P Committee for Department of Communications candidate Sol Hart
 2014 – 2015 Chair, Program in The Environment (PiTE) Committee to develop 'Energy science and policy' minor to UM's College of Literature, Science and the Arts (LSA); minor became effective fall, 2016
 2011 – 2012 Chair, UNLV Graduate College Student Funding Committee
 2011 – 2012 Member, UNLV Graduate College Executive Advisory Committee
 2011 – 2012 University Best Graduate Thesis/Dissertation Committee
 2010 – 2012 UNLV Faculty Senate Academic Standards Committee
 2007 – 2009 Chair, UNLV Faculty Senate Academic Standards Committee
 2008 – 2012 Faculty Advisor to UNLV Graduate Professional Student Association
 2008 – 2012 University Faculty Senate Academic Integrity Appeal Panel Member
 2008 – 2009 UNLV High Pressure Science and Engineering Center Deputy Director Search
 2006 – 2008 University Faculty Senate Sabbatical Leave Committee
 2006 – 2007 UNLV High Pressure Science and Engineering Center faculty search committee
 2006 Organized and hosted NSF Program Director site visit to UNLV

DEPARTMENT SERVICE

2016 – present	Organize and host career panels each semester for undergraduate/graduate students
2016	7-day field trip for 18 undergraduate/graduate students to Ontario and Michigan's UP
2016	Monthly department electronic newsletter
2016	Annual department print Newsletter
2016	Alumni Relations Committee
2015	7-day field trip for 12 undergraduate/graduate students to Ontario
2014 – 2015	Alumni Relations Committee
2014 – 2015	Executive Committee
2014	2-week field trip for 21 students to Chile
2014	7-day field trip for 29 undergraduate/graduate students to Michigan's Upper Peninsula
2014	Member, Committee for the Promotion Review of Fuxiang Zhang
2014	Turner Postdoctoral Applicants Committee
2013 – 2014	Executive Committee
2013	Graduate Admissions Committee
2012	Member, Committee for Promotion Review of EMAL Scientist Gordon Moore
2011 – 2012	Geoscience Graduate Coordinator (n = 60 students; no salary compensation provided)
2006 – 2012	Supervisor of the Electron Microanalysis and Imaging Laboratory (EMIL)
2010 – 2010	Chair, Search Committee, Director of EMIL
2009 – 2010	Faculty Mentor, Introductory Geology Course Graduate Lecturers
2006 – 2010	Geoscience Promotion and Tenure Committee
2008 – 2009	Chair, Search Committee for Director of EMIL
2006 – 2008	Faculty Supervisor, Geoscience Student GeoSymposium
2006 – 2007	Geoscience Scholarship Committee
2006 – 2007	Chair, Undergraduate Enrollment Working Group
2006	Geoscience Colloquium Coordinator
2005 – 2006	Geoscience Increasing Undergraduate Numbers Working Group
2006	Chair, Geoscience Undergraduate Awards Committee
2006	Committee, Best Graduate Thesis

INVITED TALKS

2018	Gordon Conference, Geochemistry of Mineral Deposits (keynote) University of British Columbia Michigan Law School, <i>Journal of Law Reform</i> Annual Symposium (keynote) University of Iowa Gordon Research Conference: Geochemistry of Mineral Deposits (keynote)
2017	Cornell University Advancing Health Communities through Environmental Engineering and Science Society for Geology Applied to Mineral Deposits (SGA; keynote) Society of Economic Geologists, Annual Meeting (Beijing) (keynote) Prospectors and Developers Association of Canada (PDAC) Annual Meeting Akita University, Japan (International Center for Research and Education on Mineral and Energy Resources) International Cooperation Agency Research Institute, Tokyo, Japan California State University Fullerton Brigham Young University Miami University of Ohio
2016	Geological Society of America Annual Meeting (keynote) Stanford University (two talks) Gordon Conference, Geochemistry of Mineral Deposits (keynote) University of Chile
2015	American Geophysical Union Fall Meeting

	University of Hannover, Germany
	Goldschmidt Geochemistry Conference, Prague, Czech Republic
	Ralph J. Roberts Center for Research in Economic Geology (Reno, NV) (keynote)
2014	Geological Society of America Annual Meeting (Vancouver, Canada)
	Society of Economic Geologists, Annual Meeting (Keystone, CO)
	Goldschmidt Geochemistry Conference
	Western Michigan University
2013	University of North Dakota
	North Dakota State University
	AGU Fall Meeting, San Francisco
	Goldschmidt Geochemistry Conference, Florence, Italy
2012	University of Illinois Urbana-Champaign
	Geological Society of Nevada, Reno
	American Museum of Natural History (New York, NY)
	University of Michigan, Department of Earth & Environmental Sciences
2011	Mineralogical Society of America, Sulfur Short Course, Goslar, Germany
2010	Hebrew University of Jerusalem
	McGill University
2009	University of Southern California
	Geological Society of Nevada, Las Vegas Chapter
2008	University of Nevada, Reno
	Geological Society of Nevada, Elko Chapter
2007	Tohoku University, Sendai, Japan, September
	Bern University, Switzerland
2006	Barrick Gold Corporation
2006	Northern Arizona University
2006	Institute of Seismology and Volcanology, Petropavlovsk, Russia
2006	Geological Society of Nevada, Las Vegas Chapter
	University of Nevada Reno
	Colorado School of Mines Colloquium Series
2005	Johns Hopkins University

COMMUNITY OUTREACH

2017	Co-organized, secured funding, and taught Coastal Oceanography Environment Science School (COESS) summer school in Accra, Ghana for 150 students from Ghana, Nigeria, and Liberia
2017	Science Olympiad Coach, Map Reading, 4 th and 5 th grade, Lawton Elementary School
2016	Master event coordinator, 5 th grade Battle of the Books, Lawton Elementary School
2016	Organized, secured funding, and taught Coastal Oceanography Environment Science School (COESS) summer school in Accra, Ghana for 107 students from Ghana
2015	Master event coordinator, Battle of the Books, 4 th grade Lawton Elementary School
2015	Guest lecturer, Pioneer High School AP Environmental Science
2015	Team Leader, Battle of the Books, 3 rd grade Lawton Elementary School
2014	Team Leader, Battle of the Books, 4 th and 5 th grades, Lawton Elementary School
2013	Rock cycle demonstration, 2 nd grade, Lawton Elementary School
2013	5 th grade Science Olympiad Coach, Lawton Elementary School
2013	Earth Science content mentor, 6 th grade FLL robotics teams at Bloomfield Hills Middle School
2010 – 2011	Geoscience Content Specialist, 2011 UNLV – Clark County School District Summer School VISIONS Program for K-5 Teachers
2009 – 2011	Cub Master for Boy Scout Troop 713
2006 – 2009	Nevada Southern Regional K-12 Science Fair Judge

ACTIVE GRANTS

2015-2018, \$350,000, (Simon lead PI) 55.5%, NSE EAR, Sulfur Isotope Fractionation and Sulfur Partitioning between Apatite and Silicate Melts, Co-I Adrian Fiege, American Museum of Natural History

EXPIRED GRANTS

2013-2017, \$388,582 (Simon lead PI; portion \$214,683), 55.5%, NSE EAR, Collaborative Research: The Behavior of Sulfur During Magma Mixing and Implications for Magma Degassing and Ore Formation, Co-I Philipp Ruprecht, Columbia University Lamont-Doherty Earth Observatory

2016-2017 \$33,000, University of Michigan Provost's Third Century Initiative to develop inquiry-based sustainability case studies.

2016, \$20,000, NSF EAR Geochemistry of Mineral Deposits Gordon Research Conference (GRC). Funded students and early career scientists to attend the GRC, held every 4 years.

2012-2016, \$379,393 (Simon lead PI; portion \$251,458), 55.5%, NSF EAR, Quantifying Rare Earth (REE) and High Field Strength (HFSE) Element Mobility in Fluids at Conditions Appropriate for Forearc to Subarc Cold and Hot Subduction Zones.

2010-2014, \$148,000 (Simon portion), 55.5%, NSF EAR, Collaborative Research: Integrated investigations of isotopic fractionation in magmatic systems. Co-PIs: Chip Lesher, UC Davis; Craig Lundstrom, U. Illinois; Jim Van Orman and Daniel Lacks, Case Western Reserve

2010-2011, \$21,350, 0%, NSF EAR, Pan-American Current Research on Fluid Inclusions (PACROFI) Conference. Co-PI Jean Cline, UNLV.

2007-2013, \$164,763, 48.5%, NSF EAR, Platinum group element fractionation in mafic layered intrusions. Sole PI. 1month

2010-2011, \$20,000 (Simon portion), 44%, U.S. Department of the Interior (USGS) History and origin of mineral deposits in Northern Nye County, Nevada. Co-Is, Andrew Hanson, Jean Cline, UNLV (Simon, 1/2 month)

2009-2010, \$75,000 (Simon portion), 44%, U.S. Geological Survey (USGS), History and origin of mineral deposits in Northern Nye County, Nevada. Co-Is, Andrew Hanson, Jean Cline, UNLV (Simon, 1/2 month)

2006-2012, \$570,733 (Simon portion), DOE NNSA, Quantifying trace element mobility at elevated pressure and temperature with applications to subduction zone recycling. Co-Is, Oliver Tschauer, Malcolm Nichol (Simon, 1month)

2007-2008, \$15,000, NSF EPSCoR, Characterization of unsaturated flow in heap leach piles. Co-I Michael Nicholl (Simon, 1 month, no salary)

INDUSTRY SUPPORT

2017-present, Lundin Mining Corporation, mineralization in the Candelaria iron oxide - copper - gold system.

2013-present, Compañía Minera del Pacífico (CAP), characterizing mineralization at the Los Colorados magnetite-apatite deposit, Chile. In-kind support.

2011-2013, Characterizing ore mineralization at the Estelle property, Alaska. Millrock Resources and Teck Resources. Funded one M.S. student research project. \$20,000

2009-2010, Defining stratigraphy and determining the influence of metamorphism as an ore control in the lower Paleozoic host rocks of the Getchell Carlin-type gold deposit, Nevada, U.S.A. Barrick Gold Corporation, Co-PI Jean Cline. Funded one M.S. student research project. \$30,000.

2007-2008, Igneous Geochronology and Petrography of the Cortez Hills Carlin-type Gold Deposit, Cortez, Nevada. Center for Research in Economic Geology (CREG), University of Nevada, Reno, U.S.A. Funded one M.S. student research project. \$16,000.

SYNCHROTRON BEAM TIME AWARDED (competitive, peer-reviewed proposals)

2018 18 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.
 2017 18 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.
 2016 27 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.
 2015 27 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.
 2014 9 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.
 2013 20 shifts at the Advanced Photon Source, Argonne, Illinois, U.S.

COURSES TAUGHT

Scale of 1 = lowest ranking, to 5 = highest ranking

Q1 = Overall, this was an excellent course.

Q2 = Overall, the instructor was a good teacher.

Resp. = My teaching proportion for the course

NC = Teaching evaluations not collected.

University of Michigan (u = undergraduate; g = graduate)

<u>Year</u>	<u>Term</u>	<u>Type</u>	<u>Name</u>	<u>Credits</u>	<u>Resp.</u>	<u>Enrol.</u>	<u>Q1</u>	<u>Q2</u>
2017	Fall	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	129	4.50	4.83
2017	Fall	Lecture/Dis.	uEARTH/ASTRO 255	3	33%	36	4.42	4.87
2017	Sum.	Lecture	uEARTH/ENVIRON 344	3	50%	19	4.50	5.00
2017	Spring	Lecture	uEARTH/ENVIRON 102	1	100%	67	4.50	4.67
2017	Winter	Lecture/Dis.	uEARTH/ENVIRON 119	4	100%	92	4.73	4.82
2016	Fall	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	133	4.64	4.88
2016	Fall	Lecture/Dis.	uEARTH/ASTRO 255	3	33%	32	3.76	4.88
2016	Sum.	Lecture	uEARTH/ENVIRON 344	3	50%	22	4.94	5.00
2016	Spring	Lecture	uEARTH/ENVIRON 102	1	100%	55	4.00	4.20
2016	Winter	Lecture/Dis.	uEARTH/ENVIRON 119	4	100%	92	4.73	4.82
2015	Fall	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	131	4.71	4.88
2015	Fall	Lecture/Dis.	uEARTH/ASTRO 255	3	33%	30	3.15	4.75
2015	Fall	Lecture/Dis.	gEARTH 582	4	100%	5	5.00	5.00
2015	Sum.	Lecture	uEARTH/ENVIRON 344	1	50%	10	4.67	4.67
2015	Sum.	Field Trip	uEARTH 435	1	100%	8	NC	NC
2015	Spring	Lecture	uEARTH/ENVIRON 102	1	100%	80	4.81	4.95
2015	Winter	Lecture/Dis.	uEARTH/ENVIRON 119	4	100%	125	4.62	4.90
2015	Winter	Lecture	uEARTH 435	1	100%	20	5.00	4.33
2014	Fall	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	109	4.72	4.83
2014	Fall	Field Trip	uEARTH 436	1	50%	19	4.90	4.67
2014	Sum.	Lecture	uEARTH/ENVIRON 344	3	50%	15	4.83	4.83
2014	Spring	Lecture	uEARTH/ENVIRON 380	3	100%	47	4.25	4.70
2014	Winter	Lecture/Dis.	gEARTH 582	4	100%	5	4.50	4.83
2013	Fall	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	107	4.43	4.76
2013	Sum.	Lecture	uEARTH/ENVIRON 344	3	33%	17	4.93	4.93
2013	Winter	Lecture/Dis.	uEARTH/ENVIRON 380	4	100%	62	4.58	4.81

University of Nevada Las Vegas (u = undergraduate; g = graduate)

2012	Spring	Lecture/Lab	Physical Geology		4	100%	75	4.7	4.6
2011	Fall	Lecture/lab	Physical Geology		4	100%	45	4.0	4.1
2011	Fall	Lecture/lab	§Metallic Ore Deposits	4	4	50%	18	5.0	5.0
2011	Fall	Lecture/lab	uMetallic Ore Deposits	4	4	50%	18	4.8	4.7
2011	Sum.	Lecture	uPhysical Geography		3	100%	15	N/C	N/C
2011	Spring	Lecture/lab	uPhysical Geology		4	100%	56	3.9	4.1
2010	Sum.	Lecture	uPhysical Geography		3	100%	17	N/C	N/C
2010	Spring	Lecture	uOptical Mineralogy		3	100%	13	5.0	4.8
2010	Spring	Lecture	uPhysical Geology		4	100%	45	4.3	4.9
2009	Fall	Lecture	§Magma PTX		3	100%	6	5.0	4.8
2009	Fall	Lecture/lab	u§Metallic Ore Deposits	4	50%	20	4.6	4.7	N/C
2009	Sum.	Lecture	uPhysical Geography		3	100%	15	N/C	N/C
2009	Spring	Lecture	§Time Management/Posters		1	100%	18	N/C	N/C
2009	Spring	Lecture	uPhysical Geology		3	50%	46	4.2	4.5
2009	Spring	Lecture	uPhysical Geology		3	50%	44	4.4	4.5
2009	Spring	Lecture	uOptical Mineralogy		3	100%	12	4.8	4.7
2008	Sum.	Lecture	uPhysical Geography		3	100%	15	N/C	N/C
2008	Spring	Lecture	§Magma evolution		3	100%	5	5.0	4.8
2008	Spring	Lecture	uPhysical Geology		3	50%	12	4.3	4.3
2008	Spring	Lecture	uOptical Mineralogy		3	100%	12	4.6	4.8
2007	Fall	Lecture/lab	uPhysical Geology		4	100%	49	4.2	4.5
2007	Sum.	Lecture	uPhysical Geography		3	100%	21	N/C	N/C
2007	Spring	Lecture	§Tectonics, Petrology & Fluids		3	33%	9	4.6	4.5
2007	Spring	Lecture	uOptical Mineralogy		3	100%	12	3.8	4.6
2006	Fall	Lecture/lab	u§Metallic Ore Deposits		4	50%	6	3.7	3.7
2006	Fall	Lecture/lab	uPhysical Geology		4	100%	60	4.2	4.7
2006	Sum.	Lecture	uPhysical Geography		3	100%	20	4.3	4.4
2006	Spring	Lecture	§Magma Emplacement		3	100%	5	5.0	5.0
2005	Fall	Lecture/lab	uPhysical Geology		4	100%	60	4.8	3.8

Johns Hopkins University (evaluations not available)

2004-2005 §Ore Deposit Geochemistry

University of Maryland (evaluations not available)

2004-2005 uOptical Mineralogy and uPhysical Geology lectures and labs

2003-2004 uOptical Mineralogy and uPhysical Geology lectures and labs

2002-2003 uOptical Mineralogy lecture and lab

Northern Virginia Community College (evaluations not available)

1998-2000 uPhysical Geology and uHistorical Geology lectures and labs

CURRENT GRADUATE STUDENTS (Primary Advisor; *underrepresented students*)

2018 – present Jackie Wrage
 2017 – present Maria Alejandra Rodriguez Mustafa, PhD
 2015 – present Nikita La Cruz, PhD
 2014 – present Brian Konecke, PhD
 2014 – present Tristan Childress, PhD

FORMER GRADUATE STUDENTS (Primary Advisor; *underrepresented students*)

University of Michigan

2016 – 2018 Gephen Sadove, M.S.

2015 – 2016	<i>Daniel Korfeh</i> , M.S., Lecturer, Economic Geology, University of Liberia
2013 – 2015	<i>Jaayke Knipping</i> , PhD candidate, visiting from University of Hannover
2012 – 2015	Tom Hudgins, PhD, Assistant Professor, University of Puerto Rico
2011 – 2015	<i>Laura Bilenker</i> , PhD, Postdoc, University of British Columbia
2010 – 2014	<i>Liz Tanis</i> , PhD, Petrophysicist, Shell (2010-2012 at UNLV)

University of Nevada Las Vegas

2012 – 2014	Kevin Meazell, MS, UNLV, Geologist, Environmental Consulting, Houston, TX
2011 – 2014	Ember Flagg, MS, UNLV, Exploration Geologist
2007 – 2011	Kelly Robertson, PhD, UNLV, Research Scientist, ExxonMobil
2006 – 2010	Aaron Bell, PhD, UNLV, Research Scientist, University of New Mexico
2010 – 2012	Seth Schueler, UNLV, Exploration Geologist (did not finish MS)
2010 – 2013	<i>Lindsey Clark</i> , MS, UNLV, Occidental Petroleum, Exploration Geologists
2011 – 2012	Jane Didaleusky, UNLV, Environmental Consultant (did not finish MS)
2010 – 2012	Nathan Eck, MS, UNLV, Exploration Geology, Barrick Gold Corp.
2009 – 2011	Brian Aillaud, MS, UNLV, Exploration Geology, Independent
2009 – 2001	Steve Maglio, MS, UNLV, Systems Engineer
2008 – 2010	<i>Greg Zellner</i> , UNLV, Environmental Consulting (did not finish MS)
2008 – 2010	Zach Artz, UNLV, Environmental Consulting (did not finish MS)

UNDERGRADUATE STUDENTS PEFORMING RESEARCH IN MY GROUP:

University of Michigan (underrepresented students)

Gregory Cogut	2018 (Program in the Environment major) Honors Thesis
Nathan Hougheling	2018 (electrical engineering) independent study/research
Elizabeth Rogers	2018 (EARTH major) Honors Thesis
<i>Lydia Whitbeck</i>	2018 (Program in the Environment major) independent study/research
Elena Essa	2018 (Program in the Environment major) independent study/research
Anne Rosett	2017-2018 (EARTH major) Honors Thesis
Will Amuk	2017-2018 (EARTH major) Honors Thesis
<i>Sarah Dieck</i>	2017-2018 (Program in the Environment major) Honors Thesis
Alexandria Shand	2017-2018 (Math major, and Computer Science major) independent study/research
Bridget Lockman	2017-2018 (Program in the Environment major) independent study/research
Zachary Brodkey	2017-2018 (EARTH major) independent study/research
Erich Eberhard	2017-2018 (Program in the Environment major) independent study/research
Elizabeth Oliphant	2017-2018 (EARTH major) independent study/research
Katherine Mather	2017 (Economics + Program in the Environment) independent study/research
Liam Wolfram	2017 (Economics + Program in the Environment) independent study/research
Emma Forbes	2017 (EARTH major) independent study/research
Will Amuk	2017 (EARTH major) independent study/research
Krysten Dorfman	2017 (EARTH major) independent study/research
Ahana Shanbhogue	2017 (Environmental Engineering) UROP independent study/research
Anne Rosett	2017 (EARTH major) independent study/research
Lydia Whitbeck	2017 (Program in the Environment major) independent study/research
Jessica Hicks	2016 (EARTH major) independent study/research
Anne Canavati	2016 (Near Eastern Studies) independent study/research
Elizabeth Oliphant	2016 (EARTH major) independent study/research
<i>Jayson Toveb</i>	2016 (Program in the Environment major) independent study/research
Mark Finlay	2016 (EARTH major), independent study/research
Erich Eberhard	2016 (Program in the Environment major) independent study/research
Thomas West	2016 (EARTH Major) independent study/research
Christopher Walker	2016 (EARTH Major) independent study/research
Emily Schottenfels	2015 (EARTH Major) independent study/research

Avery McIntyre	2015 (Computer Science Major) independent study/research
Yuka Yamanishi	2015 (Program in the Environment); senior research project
<i>Andrea Davila</i>	2013-2014 (EARTH Major) Honors Thesis
Alex Wong	2013-2014 (EARTH Major) independent study/research
Ryan Vanderwoude	2013-2014 (EARTH Major) independent study/research
Ray Mahaffy	2013-2014 (EARTH Major) independent study/research

University of Nevada Las Vegas

<i>Brett Perry</i>	2010 – 2011 (Geoscience major) independent study/research
<i>Kirellos Seifein</i>	2010 – 2011 (Geoscience major) independent study/research
<i>Aaron Acena</i>	2009 – 2010 (Geoscience major) independent study/research
<i>Lindsey Clark</i>	2009 – 2010 (Geoscience major) independent study/research
Seth Pages	2007 – 2008 (Geoscience major) independent study/research
Jason Norgan	2007 – 2008 (Geoscience major) independent study/research
Carl Swenberg	2006 – 2008 (Geoscience major) independent study/research
<i>Pat DeVecchio</i>	2006 – 2007 (Geoscience major) independent study/research
Jonathan Carter	2006 – 2007 (Geoscience major) independent study/research
Annalee Sendis	2007 (Physics major) summer REU
Patrick Sims	2007 (Physics major) summer REU

Postdoctoral/research fellows hosted (year, name, %sponsor and co-sponsor, current position)

2013 – 2015 Adrian Fiege, 100%, postdoctoral scholar
 2013 – 2014 Yuping Yang, 50% (Youxue Zhang = 50%), visiting research scientist

Visiting scholars hosted (year, name, %sponsor and co-sponsor, current position)

2014 Benjamin Winkler, 100%, visiting MS student from the University of Hannover
 2014 Stefan Linsler, 100%, visiting MS student from the University of Hannover
 2013 – 2015 Jaayke Knipping, 100%, visiting PhD student from the University of Hannover

Member, Ph.D. Committee (Year Completed)

Youngjae Kim (in progress); Sarah Brehm (in progress); Sha Chen (in progress); James Jolles (in progress); Xiaofei Pu (2018) Chenghuan Guo (2017); Jiachao Liu (2017); Peng Ni (2017); Racheal Johnson (2015, UNLV); Laura Waters (2013); Audrey Rager (2012, UNLV); Chris Adcock (2012, UNLV); Denise Honn (2012, UNLV); Timo Hoffman (2009, UNLV Chemistry); Nicolle Keller (2008, Australian National University)

External Member, Ph.D. Examination Committee (Year Completed)

Christine Wawryk, University of Adelaide (2017)
 Nicole S. Keller, Australian National University (2008)

Member, Preliminary Examination Committee (Year Exam Taken)

Sarah Brehm (2017); Sha Chen (2017); Nikita La Cruz (2016); Youngjae Kim (2016); Brian Konecke (2016); Tristan Childress (2016); Meredith Cologero (2016); Evan Killeen (2015); James Jolles (2015); Chenghuan Guo (2014); Liz Tanis (2013); Xiaofei Pu (2013); Laura Bilenker (2013); Kate Volk (2013); Tom Hudgins (2012); Chris Adcock (2012, UNLV); Breetha Alagappan (2012, UNLV); Racheal Johnson (2010, UNLV); Denise Honn (2010, UNLV); Kelly Robertson (2011, UNLV); Aaron Bell (2008, UNLV)

Member, M.S. Thesis Committee (Year Completed)

David Levine (2016, UM); Forrest Gilfoy (2016, UM); Kate Turner (2015, UM); Carla Eichler (2012, UNLV); Jordan Armstrong (2012, UNLV); Jeevan Jayakody (2010, UNLV); John Howard (2010, UNLV Physics); Elizabeth Tanis (2010, UNLV Physics); Ashley Tibbetts (2009, UNLV); Daniel Antonio (2009, UNLV Physics); Lisa Hancock (2008, UNLV)

PUBLICATIONS (provided for each citation as: ISI/Scopus/Google Scholar)

Google Scholar: h-index = 20; citations = 1,629; citations since 2012 = 1,082

BOOK

Kesler, S.E., Simon, A.C. (2015) Mineral Resources, Economics and the Environment. Cambridge Press. (258)

INVITED PAPERS AND SPECIAL ISSUES

Audétat, A. and **Simon, A.C.** (2012) Magmatic controls on porphyry Cu genesis. In: Economic Geology Monograph in honor of Richard Sillitoe. (Eds. J.W. Hedenquist, M. Harris, F. Camus) Society of Economic Geologists Special Publication Number 16, 553-572. (30)

Simon, A.C. and Ripley, E. (2011) The role of magmatic sulfur in the formation of ore deposits. In *Sulfur in Magmas and Melts: Its Importance for Natural and Technical Processes* (eds Behrens, H. & Webster, J. D.) Reviews in Mineralogy and Geochemistry, Mineralogical Society of America, 73, 2011), 73, 513–578 (105)

Simon, A.C., King, R.L., Pettke, T. and Usui, T. (2007), Chemical and physical processes affecting element mobility from the slab to the surface. In Simon, A.C., King, R.L., Pettke, T. and Usui, T., eds., Chemical and physical processes affecting element mobility from the slab to the surface, Chemical Geology, 239, 179-181. (0)

PEER-REVIEWED PAPERS

(graduate students *italicized*; undergraduate students *italicized and blue*; postdocs underlined)

2000

Nekvasil, H., **Simon, A.C.**, and Lindsley, D.H. (2000) Crystal fractionation and the evolution of intra-plate hy-normative igneous suites: Insights from their feldspars. *Journal of Petrology*, 41, 1743-1757. (21)

2003

Simon, A. C., Pettke, T., Candela, P.A., Piccoli, P.M. and Heinrich, C.A. (2003) Experimental determination of Au solubility in rhyolite and magnetite: Constraints on magmatic gold budgets. *American Mineralogist*, 88, 1644-1651. (44)

2004

Simon, A.C., Pettke, T., Candela, P.A., Piccoli, P.M. and Heinrich, C.A. (2004) Magnetite solubility and iron transport in magmatic-hydrothermal environments. *Geochimica et Cosmochimica Acta*, 68, 4905-4914. (101)

2005

Simon, A.C., Pettke, T., Candela, P.A., Piccoli, P.M. and Heinrich, C.A. (2005) Gold partitioning in melt vapor-brine systems. *Geochimica et Cosmochimica Acta*, 69, 3321-3335. (98)

2006

Simon, A.C., Pettke, T., Candela, P.A., Piccoli, P.M., Heinrich, C. (2006) Copper partitioning in a melt-vapor-brine-magnetite-pyrrhotite assemblage. *Geochimica et Cosmochimica Acta*, 70, 5583-5600. (132)

2007

Boudreau, A. and **Simon, A.C.** (2007) Crystallization and degassing in the basement sill, McMurdo Dry Valleys, Antarctica. *Journal of Petrology*, 48(7), 1369-1386. (15)

Hersum, T., Marsh, B., **Simon, A.C.** (2007) Contact partial melting of granitic country rock, melt segregation, and re-injection as dike into Ferrar Sills, McMurdo Dry Valleys, Antarctica. *Journal of Petrology*, 48(11), 2125-2148. (19)

Simon, A.C., Frank, M., Pettke, T., Candela, P.A., Piccoli, P.M., Heinrich, C., Glascock, M. (2007) An evaluation of synthetic fluid inclusions for the purpose of trapping equilibrated coexisting immiscible fluids at experimental PVTX conditions. *American Mineralogist*, 92, 124-138. (20)

Simon, A.C., Pettke, T., Candela, P.A., Piccoli, P.M., Heinrich, C. (2007) The partitioning behavior of As and Au in a S-free and S-bearing magmatic systems. *Geochimica et Cosmochimica Acta*, 71, 1764-1782. (69)

2008

Simon, A.C., Pettke, T., Candela, P.A., Piccoli, P.M., Heinrich, C. (2008) The partitioning behavior of silver in a vapor – brine – rhyolite melt assemblage. *Geochimica et Cosmochimica Acta*, 72(6), 1638-1659. (34)

Simon, A.C., Candela, P.A., Piccoli, P.M. and Engländer, L. (2008) The effect of crystal – melt Partitioning on the budgets of Cu, Au and Ag. *American Mineralogist*, 93, 1437-1448. (51)

2009

Bell, A., **Simon, A.C.** and Guillong, M. (2009) Experimental constraints on Pt, Pd and Au partitioning and fractionation in silicate melt – sulfide – oxide – aqueous fluid systems at 800°C, 150 MPa and variable sulfur fugacity. *Geochimica et Cosmochimica Acta*, 73(19), 5778-5792. (26)

Simon, A.C. and Pettke, T. (2009) Platinum solubility and partitioning in a felsic melt – vapor – brine assemblage. *Geochimica et Cosmochimica Acta*, 73(12), 438-454. (27)

2011

Bell, A., **Simon, A.C.** and Guillong, M. (2011) Gold solubility in oxidized and reduced, water saturated mafic melt. *Geochimica et Cosmochimica Acta*. 75(7), 1718-1732. (15)

Bell, A. and **Simon, A.C.** (2011) Evidence for the alteration of the $\text{Fe}^{3+}/\Sigma\text{Fe}$ of silicate melt caused by the degassing of chlorine-bearing aqueous volatiles. *Geology*. 39(5), 499-502. (40)

Frank, M.R., **Simon, A.C.**, Pettke, T., Candela, P., Piccoli, P. (2011) Gold and copper partitioning in magmatic-hydrothermal systems at 800°C and 100 MPa. *Geochimica et Cosmochimica Acta*. 75(9), 2470-2482. (57)

Muntean, J., Cline, J., **Simon, A.C.** and Longo, A. (2011) Magmatic-hydrothermal origin of Nevada's Carlin-type gold deposits. *Nature Geoscience*, 4, 122-127. (133)

2012

Pettke, T., Oberli, F., Audétat, A., Guillong, M., **Simon, A.C.**, Hanley, J.J., Klemm, L.M. (2012) Recent developments in element concentration and isotope ratio analysis of individual fluid inclusions by laser ablation single and multiple collector ICP-MS. *Ore Geology Reviews*, 44, 10-38. (95)

Tanis, E.A., **Simon, A.C.**, Tschauner, O., Chow, P., Xiao, Y., Shen, G., Hanchar, J.M., Frank, M. (2012) Solubility of xenotime in 2 M HCl aqueous fluid from 1.2 to 2.6 GPa and 300 to 500°C. *American Mineralogist*, 97, 1708-1713. (13)

2013

Robertson, K., **Simon, A.C.**, Pettke, T., Smith, E., Selyangin, O., Kiryukhin, A., Mulcahy, S.R., Walker, J.D. (2013) Melt inclusion evidence for magma evolution at Mutnovsky volcano, Kamchatka. *Geofluids*, 13, 421-439. (3)

2014

Kirk, J.D., Ruiz, J., Kesler, S.E., **Simon, A.C.**, Muntean, J.L. (2014) Re-Os age of the Pueblo Viejo epithermal deposit, Dominican Republic. *Economic Geology*, 109, 503-512. (8)

Simon, A.C., Yogodzinski, G.M., *Robertson, K.*, Smith, E., Selyangin, O., Kiryukhin, A., Mulcahy, S.R., Walker, J.D. (2014) Evolution and genesis of volcanic rocks from Mutnovsky Volcano, Kamchatka. *Journal of Volcanology and Geothermal Research*, 286, 116-137. (9)

2015

Fiege, A., Vetere, F., Iezzi, G., **Simon, A.C.**, Holtz, F. (2015) The roles of decompression rate and volatiles ($\text{H}_2\text{O}+\text{Cl}\pm\text{CO}_2\pm\text{S}$) on crystallization in (trachy-) basaltic magma. *Chemical Geology*, 411, 211-322 (2)

Hudgins, T., Mukasa, S.B., **Simon, A.C.**, Moore, G., Barifaijo, E. (2015) Melt inclusion evidence for CO_2 -rich melts beneath the western branch of the East African Rift: Implications for long-term storage of volatiles in the deep lithospheric mantle. *Contributions to Mineralogy and Petrology*, 2015, Volume 169, Number 5, 1-18, 10.1007/s00410-015-1140-9 (11)

- Knipping, J.L., Bilenker, L., Simon, A.C., Reich, M., Barra, F., Deditius, A., Lundstrom, C., Bindeman, I., Munizaga, R. (2015) Giant Kiruna-type deposits form by efficient flotation of magmatic magnetite suspensions. Geology, 43, 591–594, doi:10.1130/G36650.1. Highlighted by the journal editors as the subject of a separate "Focus" article. (56)*
- Knipping, J.L., Bilenker, L., Simon, A.C., Reich, M., Barra, F., Deditius, A., Wälle, M., Heinrich, C.A., Holtz, F., Munizaga, R. (2015) Trace elements in magnetite from massive iron oxide-apatite deposits indicate a combined formation by igneous and magmatic-hydrothermal processes. Geochimica et Cosmochimica Acta, 171, 15-38. (36)*
- Tanis, E.A., Simon, A.C., Tschauner, O., Chow, P., Xiao, Y., Burnley, P., Cline II, C., Hanchar, J.M., Pettke, T., Shen, G., Zhou, Y. (2015) The mobility of Nb in rutile-saturated NaCl- and NaF-bearing aqueous fluids from 1-6.5 GPa and 300-800 C. American Mineralogist, 100, 1600-1609. Highlighted by the journal editors as a "Notable Paper" (18)*

2016

- Bilenker, L., Simon, A.C., Reich, M., Lundstrom, C., Bindeman, I., Munizaga, R. (2016) Fe-O stable isotope pairs elucidate a high-temperature origin of Chilean iron oxide-apatite deposits. Geochimica et Cosmochimica Acta, 177, 94-104. (13)*
- Childress, T.M., Simon, A.C., Day, W.C., Lundstrom, C.C., Bindeman, I.N. (2016) Iron and oxygen isotope signatures of the Pea Ridge and Pilot Knob magnetite-apatite deposits, southeast Missouri, USA. Journal of Economic Geology, 111, 2033-2044. (12)*
- Reich, M., Simon, A.C., Deditius, A., Barra, F., Chrysosoulis, S., Lagas, G., Tardani, D., Knipping, J., Bilenker, L., Sanchez-Alfaro, P., Roberts, M.P., Munizaga, R. (2016) Trace element signature of pyrite from the Los Colorados iron oxide-apatite (IOA) deposit, Chile: A missing link between Andean IOA and IOCG systems? Journal of Economic Geology, 111, 743-761. (10)*
- Tanis, E.A., Simon, A.C., Zhang, Y., Chow, P., Xiao, Y., Hanchar, J.M., Tschauner, O., Shen, G. (2016) Rutile solubility in NaF-NaCl-KCl-bearing aqueous fluids at 0.5-2.79 GPa and 250-650°C. Geochimica et Cosmochimica Acta, 177, 170-181. (15)*
- Yang, Y., Zhang, Y., Simon, A.C., Ni, P. (2016) Cassiterite dissolution and Sn diffusion in silicate melts of variable water content. Chemical Geology, 441, 162-176. (3)*

2017

- Barra, F., Reich, M., Selby, D., Rojas, P., Simon, A.C., Salazar, E., Palma, G. (2017) Unraveling the Origin of the Andean IOCG Clan: A Re-Os Isotopes Approach. Ore Geology Reviews, 81, 62-78. (4)*
- Bilenker, L.B., Van Tongeren, J., Lundstrom, C.C., Simon, A.C. (2017) Iron isotopic evolution during fractional crystallization of the uppermost Bushveld Complex layered mafic intrusion. Geochemistry, Geophysics, Geosystems, 18 (3), 956-972. (2)*
- Maroun, L.R.C., Cline, J.S., Simon, A., Anderson, P., Muntean, J. (2017) High-Grade Gold Deposition and Collapse Breccia Formation, Cortez Hills Carlin-Type Gold Deposit, Nevada, USA. Economic Geology, 112, 707-740. (0)*
- Fiege, A., Ruprecht, P., Simon, A.C., Bell, A.S., Göttlicher, J., Newville, M., Lanzirotti, T., Moore, G., (2017) Calibration of Fe XANES for high-precision determination of Fe oxidation state in glasses: Comparison of results obtained at different synchrotron radiation sources. American Mineralogist, 102, 369-380. (5)*
- Fiege, A., Ruprecht, P., Simon, A.C. (2017) A magma mixing redox trap that moderates mass transfer of sulfur and metals. Geochemical Perspectives Letters, 3, 190-199. (0)*
- Konecke, B., Fiege, A., Simon, A.C., Parat, F., Stechern, A. (2017) Co-variability of S⁶⁺, S⁴⁺ and S²⁻ in apatite as a function of oxidation state – implications for a new oxybarometer. American Mineralogist, 102, 548-557. (6)*
- Konecke, B., Fiege, A., Simon, A.C., Holtz, F. (2017) Cryptic metasomatism during late-stage lunar magmatism implicated by sulfur in apatite. Geology, 45 (8): 739-742. (0)*
- Ni, P., Zhang, Y., Simon, A.C., Gagnon, J. (2017) Cu and Fe diffusion in rhyolitic melts during chalcocite "dissolution": Implications for porphyry ore deposits and tektites. American Mineralogist, 102, 1287-1301. (0)*

Kim, Y., Konecke, B., Fiege, A., Simon, A.C., Becker, U., An ab-initio study of the energetics and geometry of sulfide, sulfite and sulfate incorporation into apatite: The thermodynamic basis for using this system as an oxybarometer. *American Mineralogist*, 102, 1646-1656. (0)

2018 (*undergraduate students italicized and blue*)

Oliphant, E., Finlay, M., Simon, A.C., Arbic, B.K., Biofuels: Beneficial or Bad: Should a Ghanaian Chief Sell His Land for Biofuel Crop Cultivation? Sustainability: The Journal of Record.

Arnuk, W., Dorfman, K., Forbes, E., Shambhogue, A., Soberal, N., Simon, A., Fancy, S., Knoop, P. (2018) Solar microgrid feasibility study for City of Ann Arbor (2017). University of Michigan Energy Institute.

Fiege, A., Simon, A.C., Linsler, S.A., Bartels, A., Linnen, R.L., The effect of phosphorous and boron on Nb and Ta ore formation. *Ore Geology Reviews*, 94, 383-395.

Rojas, P.A., Barra, F., Deditius, A., Reich, M., **Simon, A.**, Rojas, P., Roberts, M., Rojo, M. (2018) New contributions to the understanding of Kiruna-type iron oxide-apatite deposits revealed by magnetite ore and gangue mineral geochemistry at the El Romeral deposit, Chile. *Ore Geology Reviews*, 93, 413-435. <https://doi.org/10.1016/j.oregeorev.2018.01.003>

Rojas, P.A., Barra, F., Reich, M., Deditius, A., **Simon, A.C.**, Uribe, F., Romero, R., Rojo, M. (2018) A genetic link between magnetite mineralization and diorite intrusion at the El Romeral iron oxide-apatite deposit, northern Chile. *Mineralium Deposita*
<https://doi.org/10.1007/s00126-017-0777-x>

MANUSCRIPTS ACCEPTED/IN PRESS

(*graduate students italicized; postdocs underlined*)

Simon, A.C., *Knipping, J.*, Reich, M., Barra, F., Deditius, A.P., *Bilenker, L., Childress, T.*, A holistic model that combines igneous and magmatic-hydrothermal processes to explain Kiruna-type iron oxide – apatite deposits and iron oxide – copper – gold deposits as products of a single evolving ore system. Society of Economic Geology Special Publication: “Metals, Minerals, and Society”

MANUSCRIPTS SUBMITTED/IN REVIEW

(*graduate students italicized; undergraduate students italicized and blue; postdocs underlined*)

Childress, T., Simon, A.C., Reich, M., Barra, F., Arce, M.J., Lundstrom, C., Bindeman, I., Resolving the magmatic-hydrothermal signal using Fe and O stable isotope pairs at the world class Mantoverde iron oxide - copper - gold deposit, Chile. *Mineralium Deposita*.

Canavati, A., Toveh, J., Simon, A.C., Arbic, B.K., Electronic Graveyard: What is the Solution to Ghana's E-Waste Dilemma? Environmental Engineering Science

Eberhard, E., Hicks, J., Simon, A.C., Arbic, B.K., Coping with Cocoa Complications: How do Economic Factors Impact the Land Usage Decisions of Ghanaian Cocoa Farmers? World Development Perspectives

Deditius, A., Reich, M., **Simon, A.C.**, Suvorova, A., *Knipping, J.*, Roberts, M.P., Rubanov, S., Dodd, A., Saunders, M., Nanogeochemistry of hydrothermal magnetite. *Contributions to Mineralogy and Petrology*.

La Cruz, N., Simon, A.C., Wolf, A., Reich, M., Barra, F., Gagnon, J. The geochemistry of apatite from the Los Colorados Kiruna-type iron oxide - apatite deposit, Chile: Implications for ore genesis. *Mineralium Deposita*.

MANUSCRIPTS TO BE SUBMITTED IN 2018 (*graduate students italicized; postdocs underlined*)

Childress, T., Simon, A.C., Reich, M., Barra, F., Bindeman, I. Fe, H and O stable isotopes fingerprint a mantle source for the El Laco iron oxide - apatite deposit. *Mineralium Deposita*.

Konecke, B., *Fiege, A., Simon, A.C.* Partitioning of sulfide, sulfite and sulfate between apatite and silicate melt. *Geochimica et Cosmochimica Acta*

Sadove, G., Konecke, B., Fiege, A., Simon, A.C., Structurally bound S²⁻, S¹⁻, S⁴⁺, S⁶⁺ in apatite: The redox evolution of ore fluids at the Philips Mine ore deposit, New York, USA. *Ore Geology Reviews*.

- Bilenker, L., Simon, A.C., Lundstrom, C., Gajos, N., Experimental determination of iron isotope fractionation among magnetite, fluid, and silicate melt. *Chemical Geology**
- La Cruz, N., Simon, A.C., Reich, M., Barra, F. Geochemistry of magnetite and apatite from the world class El Laco iron oxide - apatite deposit. *Mineralium Deposita*.*
- Hudgins, T.R., Simon, A.C., Investigating magma mixing by using MELTS modeling and chemical and textural observations of plagioclase from Mutnovsky Volcano, Kamchatka. *Contributions to Mineralogy and Petrology**

BOOK REVIEWS

Simon, A., Frontiers in Geofluids, Pure and Applied Geophysics, 2013. 170, 2009-2010.

PEER-REVIEWED TECHNICAL REPORTS (*graduate students italicized; postdocs underlined*)

- Ludington, S., John, D.A., Muntean, J.L., Hanson, A.D., Castor, S.B., Henry, C.D., Wintzer, N., Cline, J.S., and **Simon, A.C.** (2009) Mineral-resource assessment of northern Nye County, Nevada; a progress report: U.S. Geological Survey Open-File Report 2009-1271, 13 p.
- Eichelberger, J., Kiryukhin, A., and **Simon, A. C.** (2009) The magma-hydrothermal system at Mutnovsky Volcano, Kamchatka Peninsula, Russia. *Scientific Drilling*, 7.
- Simon, A.C.** and *Artz, Z.* (2009) An Investigation of Igneous Intrusions at the Cortez Hills Carlin type Gold Deposit. Center for Research in Economic Geology, University of Nevada, Reno, U.S.A.
- Artz, Z.* and **Simon, A.C.** (2008) Igneous Geochronology and Petrography of the Cortez Hills Carlin-type Gold Deposit, Center for Research in Economic Geology, Reno, U.S.A.

NON-PEER REVIEWED PUBLICATIONS (*graduate students italicized; postdocs underlined*)

- Jayakody, J., Nicholl, M., Simon, A.C.* (2011) Spatial and temporal structure of unsaturated flow in porous crushed stone. In: B. Luke (Ed), Symposium on Engineering Geology and Geotechnical Engineering.
- Simon, A.C.** (2008) The relationship between hydrogen fugacity and copper partitioning at magmatic conditions. In: T. Kazuyuki, T. Noriyoshi and J. Balachandran (Eds.), Water Dynamics, 5th International Workshop on Water Dynamics AIP Conference Proceedings 987, 105-107.

ABSTRACTS

I no longer keep track of abstract submissions. All of my graduate students attend and present their research at the Prospectors and Developers Association of Canada (PDAC) industry-focused meeting each March in Toronto, Canada. This is the world's largest meeting of the mining industry. My graduate students present their research also at one academic meeting per year, choosing among the annual meetings of the Geological Society of America (GSA), American Geophysical Union (AGU), Goldschmidt Conference, Society of Economic Geologists (SEG), Society for Geology Applied to Ore Deposits (SGA). All of my graduate students also present their research at the annual Michigan Geophysical Union (MGU) symposium here on campus.