Matthew J. Kohn

Contact Information

Address: Department of Geosciences
Boise State University
Boise, Idaho 83725
Cell: 208-830-1634
mattkohn@boisestate.edu

Educational Experience

1991: Ph. D. in Geology, Rensselaer Polytechnic Institute, Troy, NY 12180
1989: M. S. in Geology, Rensselaer Polytechnic Institute, Troy, NY 12180
1986: B. S. in Geology, Massachusetts Institute of Technology, Cambridge, MA 02139

Research Interests and Expertise

Development and use of geochemical techniques to investigate ecology, climate, petrogenesis, and orogenesis, including major elements, trace elements, stable isotopes, and radiogenic isotopes. Climatic and physiological analysis of organic phosphates. Chemical and isotopic analysis of metamorphic minerals. Stable isotope, electron probe, ICP-MS, ion probe, and Raman microscope analysis; geochronology; thermodynamics, kinetics and phase equilibria.

Professional profiles

Google Scholar: https://scholar.google.com/citations?user=xSyB1KQAAAAJ&hl=en&oi=sra
ORCID: https://orcid.org/0000-0002-7202-4525

Outreach channels (>500,000 hits, total)

YouTube “OpticalMineral”: https://www.youtube.com/user/@OpticalMineral
YouTube “Matt Kohn”: https://www.youtube.com/channel/UC_hMpIlR88i2uZbQ4S1OPhQ
Bilibili “MJKohn”: https://space.bilibili.com/2031848148
Minpet on-line textbook (Perkins, Kohn, and Brady): https://optical.minpet.org/

Research, Teaching, and Professional Positions

2011- University Distinguished Professor, Boise State University
2024-2024 President’s International Fellow, Chinese Academy of Sciences
2021-2021 Distinguished Scientist International Fellow, Chinese Academy of Sciences
2010-2011 Professor, Boise State University
2007-2010 Associate Professor, Boise State University
2005-2006 Visiting Professor, sabbatical leave, Washington State University
2004-2007 Associate Professor, University of South Carolina
1998-2004 Assistant Professor, University of South Carolina
1996-1998 Post-Doctoral research staff, Lawrence Livermore National Laboratory
1994-1996 Research scientist, University of Wisconsin - Madison.
1995-1995 Visiting Assistant Professor, Northern Illinois University (Fall Semester).
1991-1993 NSF Post-Doctoral fellow, stable isotope geochemistry, UW-Madison.
1986-1991 NSF graduate fellow, RA, TA, metamorphic petrology, RPI.
1983-1986 Undergraduate researcher, sedimentology and structural geology, MIT.

Awards, Fellowships, and Honors

Undergraduate Research (MIT):

Goetze Grant, 1985

Sea Grant, 1984, 1985

Graduate Research (RPI):

NSF graduate fellowship, 1986-1989

GSA research grant, 1987, 1988

Sigma Xi grant, 1987

Professional:

President's International Fellow, Chinese Academy of Sciences (2024)

Zhongguancun Award for International Cooperation, Beijing (2024)

Distinguished Scientist International Fellow, Chinese Academy of Sciences (2021)

Dana medal, Mineralogical Society of America (2019)

Champion for Science, American Geophysical Union (2018)

Fellow, American Geophysical Union (2017)

Shell London Lecturer (2013)

Mineralogical Society of America Distinguished Lecturer (2012-2013)

Outstanding Reviewer, AGU (2012)

University Distinguished Professor, BSU (2011; permanent designation)

Fellow, Geological Society of America (2008)

Fellow, Mineralogical Society of America (2007)

Undergraduate Research Mentor of the Year Award, 2004 (USC; 1 recipient each year)

Two Thumbs Up Teaching/Service Award, 2002 (USC; multiple recipients each year)

NSF post-doctoral fellowship, 1991-1993

Proposals Funded (~$11M)

Proposal title	Source/dates	Amount
Uptake mechanisms of REE in sedimentary phosphorite mineral	DOE – Basic Energy 2023-2027 (lead PI with B. Mazumder)	$889k
Collaborative Research: How do ultrahigh pressure metamorphic sheets form and exhume? A case study from the Tso Morari complex, India	NSF – Tectonics 2022-2025 (lead PI with S. Long)	$341k
Thermal structure of subduction zones: Metamorphic and geophysical perspectives	Chinese Acad. Sciences, President's International Fellowship 2021 (sole PI)	$15k
MRI: Acquisition of an inductively coupled plasma mass spectrometer and UV excimer laser platform for trace element analysis and U-Th-Pb petrochronology	NSF - Facilities and Instrumentation 2019-2021 (co-PI; D. Wanless, lead PI at BSU)	$405k
Reevaluation of metamorphic garnet-based P-T paths and their tectonic implications	NSF-Tectonics 2019-2022 (sole PI)	$258k
Conference: Petrochronology 2017, Seattle, Washington	NSF-Petrology and Geochemistry 2017-2018 (sole PI)	$15k
PIRE: ExTerra Field Institute and Research Endeavor (E-FIRE)	NSF-PIRE/OIA 2016-2023 (lead PI with S. Penniston-Dorland and M. Feineman)	$4.02M
Collaborative Research: Experimental determination of trace element diffusion rates in tooth enamel	NSF-Geobiology, low-Temp Geochemistry 2016-2019 (lead PI with R. Hervig)	$171k
Field testing Raman microspectroscopic thermobarometers in garnet	NSF-Petrology and Geochemistry 2015-2017 (sole PI)	$147k
MRI: Acquisition of an electron probe microanalyzer for Earth Science and Materials research and education	NSF-Instrumentation and Facilities. 2014-2016 (lead PI with M. Schmitz, J. Crowley, R. Ubic, and D. Wanless)	$988k
Collaborative research: Deciphering subduction dynamics: Case study of the Catalina Schist	NSF-Tectonics. 2014-2016 (co-PI with S. Penniston-Dorland)	$42k
Collaborative research: calibrating mid-Miocene greenhouse climate and ecology in a key high southern latitude locale	NSF-Sedimentary Geology and Paleobiology. 2014-2016 (lead PI with C. Strömberg and R. Kay)	$99k
Metamorphic and tectonic evolution of the Tethyan Himalaya, central Nepal	NSF-Tectonics. 2013-2015 (sole PI)	$191k
Experimental calibration of stable isotope and REE partitioning in bioapatite	NSF-Geobiology, low-Temp Geochemistry. 2013-2015 (sole PI)	$143k
RAPID: An unusual opportunity to track snow ablation using stable isotope evolution of the 2011-2012 snowpack near Boise, Idaho	NSF-Hydrologic Sciences. 2012-2013 (co-PI; S. Evans, lead PI at BSU)	$20k
Petrologic and chronologic evaluation of Himalayan tectonic models in southern Bhutan	NSF-Tectonics. 2011-2014 (sole PI)	$205k

Acquisition of a stable isotope mass spectrometer for Earth science and ecological research	NSF-Instrumentation and Facilities 2009-2010 (lead PI with M. Schmitz, J. Heath, J. Belthoff, and C. Hill)	$377k
Acquisition of a 213nm laser and cathodo-luminescence-detector for microanalysis of zircon and other Earth materials	NSF-Instrumentation and Facilities, 2008-2009 (lead PI with M. Schmitz and J Crowley)	$138k
Collaborative research: Testing mechanical models of Himalayan orogenesis in NW India	NSF-Tectonics, 2008-2012 (co-PI with D. Robinson)	$275k
Collaborative research: How did the grassland biome evolve in South America?	NSF-Paleobiology, 2008-2012 (co-PI with C.A.E. Strömberg and R.H. Madden)	$120k
Collaborative Research: Tectonic rates from differential garnet geochronology	NSF-Petrology & Geochem., (lead PI) 2008-2010	$105k
Acquisition of a stable isotope ratio mass spectrometer for climate change research	NSF-Instrumentation and Facilities, 2006-2007 (co-PI; lead PI R. Thunell)	$336k
Testing paleoenvironmental models of the Cretaceous Western Interior Seaway via stable isotopes of fossil turtles and fish	PRF (American Chemical Society), 2006-2008 (sole PI)	$79k
Timing, conditions, and rates of thrust transport in the Nepalese Himalaya	NSF-Tectonics, 2005-2008 (sole PI)	$130k
Testing Paleozoic vs. Cenozoic metamorphism in the Greater Himalaya, Nepal	NSF-Petrology & Geochem., 2005-2006 (sole PI)	$36k
Collaborative Research: Extensional unroofing of the central Menderes metamorphic complex, southwestern Turkey (Co-PI with E. Catlos)	NSF-Tectonics, 2005-2008 (sole PI)	$50k
Timing and magnitude of climate change across the Eocene-Oligocene transition, northern Great Plains, USA,	NSF – Paleoclimate, 2004-2007 (sole PI)	$231k
Evolution of LREE+Th distributions in minerals during prograde metamorphism	NSF-Petrology & Geochem., 2003-2005 (sole PI)	$88k
SGER: Fossil bone as a paleoclimate indicator	NSF – Geology and Paleontology 2003-2005 (sole PI)	$24k
Collaborative Research: Acadian vs. Taconian tectonism in the southern Appalachian Western Blue Ridge – Implications for models of terrane accretion.	NSF – Tectonics, 2003-2005 (lead PI with W. Hames and J. Tull)	$135k
Metamorphic evolution of the Main Central Thrust, Nepal	NSF-Petrology & Geochem., 2000-2004 (sole PI)	$209k
Monazite dating via the electron microprobe: a new geochronologic technique	USC, 2001-2002 (sole PI)	$12k
Constraints on Miocene uplift of the central Cascade Range, Oregon	NSF – Tectonics, 2000-2002 (sole PI)	$136K
Mountain building and climate change	USC, 1999-2000 (sole PI)	$10k

Oxygen isotope compositions of fossil biogenic phosphates: climate reconstruction in East Africa.	NSF – Archaeometry, 1996-1997 (lead PI with M. Schoeninger and J. Valley)	$60k
Case study investigation of the relationships between fluid infiltration and deformation using oxygen isotope zoning in metamorphic porphyroblasts	NSF- Petrology & Geochem., 1994-1996 (sole PI)	$92k
Determination of the importance of fluid infiltration during regional metamorphism via modeling and measurement of oxygen isotope zonation in garnet	NSF – Postdoctoral fellow-ship, 1991-1993 (sole PI)	$70k

Supervision of Postdoctoral Scholars.

1. Christopher Parkinson. Himalayan tectonics. 2001 – 2003
2. Jennifer Chambers. Himalayan tectonics. 2008 – 2010
3. Stacey Corrie. Himalayan tectonics. 2010 – 2013
4. Celina Suarez. Trace elements in fossils. 2011 – 2012
5. Besim Dragovic. Subduction zone petrology and geochronology. 2016 – 2019

Supervision of Doctoral Students.

1. Alessandro Zanazzi "Paleoclimatology and paleoecology of the Eocene-Oligocene transition, central North America" PhD 2005-2009.
2. Alan B. Coulson. "Ecologic and paleontologic utility of marine turtle bone phosphate oxygen isotopes" PhD 2005-2009.
3. Stacey Corrie "Geochemical and geochronological constraints on the tectonothermal history of the central and eastern Nepal Himalaya." PhD 2005-2010.
4. Amanda Drewicz "Paleoclimatic and paleoecological response of the American Southwest Desert to abrupt Pleistocene climate change." PhD 2013-2019.
5. Robin Trayler "Geochemical partitioning of synthetic bioapatites and mid-Miocene climates of southern South America." PhD 2013 - 2019.
6. Shaina Cohen "Raman spectroscopy of mineral inclusions" 2016-2017.
7. Buchanan Kerswell "Computational approaches to understanding subduction zone geodynamics: surface heat flow and the metamorphic rock record." PhD 2022.
8. John Fink "Uptake of rare-earth elements in fossils and potential for unconventional rare earth resources." PhD 2026.
9. Sajjad Shah "Petrochronologic and tectonic evolution of the Tso Morari ultrahigh-pressure metamorphic complex, Ladakh, India." PhD 2027.
10. Gloria Roman [TBD]. PhD 2029.

Supervision of Masters Students.

1. Jennifer Josef "Continental paleoclimate of Southern Argentina, 38 Ma to the present" M.S. 2002.
2. Robert King "Characterization of fluid flow and metasomatism in the mantle wedge from Franciscan Complex ultramafic blocks" M.S. 2002.
3. Stacey Corrie "Age of metamorphism and tectonic evolution of the Western Blue Ridge, Great Smoky Mountains, NC." M.S. 2005
4. Jessica Sousa "Measuring the rate of garnet growth: implications for Rb-Sr garnet geochronology" M.S. 2011.
5. Andrea Wolfowicz "Ti-in-quartz temperatures of mylonitic orthogneiss, Scandinavian Caledonides" M.S. 2012.
6. Jesse Walters "Protracted thrusting followed by late rapid cooling of the Greater Himalayan Sequence, Annapurna Himalaya, central Nepal: Insights from titanite petrochronology. MS Boise State University" M.S. 2016.
7. Mayara Cizina "Optimizing Raman spectral collection for quartz and zircon crystals for elastic geothermobarometry" M.S. 2020.
8. Samuel Couch "Re-evaluation of the first metamorphic P-T path using QuiG barometry and equilibrium thermodynamics." M.S. 2021.
9. Alexis Thomas "Using Raman spectroscopy to validate metamorphic P-T paths from western New Hampshire." M.S. 2024

10. Emily Chojnacky, MS Earth Sci (non-thesis). M.S. 2024.
11. Alexus Wuertemburg [TBD] M.S. 2027.

Supervision of Undergraduate Senior Theses.

1. Jennifer Miselis "Oxygen isotope record of Cascade Range uplift" 2001.
2. Stacey Russo "Paleoclimate record of Plio-Pleistocene Idaho from oxygen isotope compositions of fossil teeth" 2002.
3. Cari Fuller "Ultrahigh-pressure metamorphism in Brazil" 2003.

Supervision of Undergraduate Research (Underlined name = research resulted in student co-authored journal publication).

1. L. Childs Cantey. 1999-1999. "Electron microprobe characterization of South Carolina eclogites". B.S., 2000
2. Jennifer Miselis. 1999–2001. "Paleoclimate evolution of central Oregon as a monitor of Cascade Range uplift". B.S., 2001
3. Stacia Russo. 2001–2002. "Oxygen Isotopes of teeth". B.S., 2002
4. Margaret Malloy. 2001–2002. "Electron microprobe dating of metamorphic monazite, Great Smoky Mountains, NC". B.S. 2002.
5. Cari Fuller. 2002–2003. "UHP metamorphism in Brazil." B.S. 2003.
6. J. McIver Law. 2001–2003. "Oxygen isotopic and climatic history of central Oregon and western Idaho during the last 5 million years." B.S. 2003.
7. Lauren Byrne. 2001–2002. "Oxygen isotopes of teeth, and carbon isotopes of plant phytoliths".
8. Kim Davis. 2002–2003. "Stable isotope composition of fossil bone vs. paleosol carbonate – use for paleoclimate studies". B.S. 2004
9. Moriah McKay. 2003–2005. "Carbon isotope compositions of Pleistocene fauna, South Carolina". B.S. 2005
10. Michael Grigsby. 2009–2009. "Stable isotope compositions of modern herbivore, omnivore, and carnivore teeth from Idaho." B.S. 2009
11. Michelle Gordon. 2009–2010. "Stable isotope compositions of fossil teeth from southern Argentina. B.S. 2011.
12. Jennifer Morris. 2010–2011. "Trace elements in modern teeth from Idaho" B.S., 2011
13. Alma Palacios. 2011–2012. "Stable isotope paleoecology of the mid-Pliocene, Hagerman Fossil Beds National Monument, Idaho" B.S. 2015.
14. Joey Dean. 2011–2012. "Oxygen and hydrogen isotope systematics in grasshoppers" B.S. 2012.
15. Christopher Markley. 2011–2012 "Zr and zircon systematics in eclogites" B.S. 2012.
16. Eliza Schulz. 2012–2013 "Stable isotope systematics of grasshoppers" B.S. 2013.
17. Remington Brooks. 2013. "Calibration of keratin stable isotope analysis." B.S. 2013
18. Jean Carlos Santana Ferreira (Brazilian exchange student). 2015. "Thermometry and geochronology of Santa Catalina subduction zone rocks."
19. Tainah Pinto dos Santos (Brazilian exchange student). 2015. "Thermometry and geochronology of Himalayan metacarbonates, central Bhutan."
20. Jessie Bohn. 2016. "Trace element partitioning of synthetic bioapatite"
21. Benjamin Bruck. 2016. "Raman spectroscopy of mineral inclusions" B.S.2017
22. Mariah Holloway. 2017. "Stable hydrogen isotopes of modern teeth" B.S. 2017
23. Mayara Cizina. 2017-2018. "Trace element zoning and thermometry in accessory minerals". B.S. 2018
24. Yashvardhan Gaur. 2018. "Raman spectroscopy of zircon inclusions in quartz and feldspar"

25. Allie Howell. 2018-2019. “Raman spectroscopic reevaluation of metamorphic P-T paths”
26. Kyra Schroeder/Croft. 2019 – 2021 “Pressure-temperature conditions of rocks from the Tauern Window, central Alps, Austria,” and “Zircon petrochronology, Tso Morari massif”. B.S. 2021
27. Akira Byrne. 2022 – 2023. “Stable isotope compositions of archeological materials” B.S. 2024
28. Jayna Thompson. 2023. “Thermometry of UHP rocks from the Tso Morari complex, India.” B.S. 2023
29. Kathryn Markthaler. 2023-2024. “Zr-in-rutile thermometry of UHP rocks from the Tso Morari complex, India.” B.S. 2024
30. Alex Morton. 2024-2024. “Diffusion of trace elements in tooth enamel.” BS 2025
31. Myla Negrete. 2024-2025. “Spectroscopy of modern and fossil tooth enamel.” BS 2025
32. Armando Lopez. 2024-2025. “Detrital zircon from the Gangdese batholith.” BS 2026.
33. Madeline Makowski. 2025-2025. “Chemically-induced stress gradients in garnets” BS 2026.

Other Research Supervision.

1. Mark Wieland. Electron microprobe analyst, 2002 – 2003.
2. J. McIver Law. Stable isotope analyst, 2003 – 2005.
3. Emily Hinz. PhD candidate, geophysics. Trace elements in teeth, 2008 – 2009.
4. Shannon Murray. PhD candidate, geophysics. Trace elements in wood, 2009 – 2010.
5. Erika Akin. Stable isotope analyst, 2009 – 2010.
6. Dr. Celina Suarez. Trace element analyst, 2010 – 2011.
7. Eliza Schulz. Stable isotope analyst, 2014, 2016.
8. Steven Obert. Stable isotope analyst, 2018.
9. Kathryn Markthaler. Trace element and geochronology analyst, 2025.

Professional Memberships (current only)

American Association for the Advancement of Science (AAAS) 2007 –
American Geophysical Union (AGU) 1988 –
Geochemical Society (GS) 2014 –
Geological Society of America (GSA) 2001 –
Mineralogical Society of America (MSA) 1987 –
National Association of Geoscience Teachers (NAGT) 2021 –

Classes Taught

Geology of the National Parks (non-majors)
Introduction to geology (Physical Geology; non-majors)
Introductory mineralogy (undergraduate majors)
Rocks and minerals/Earth materials (undergraduate majors)
Evolution of mountain belts (undergraduate majors)
Field Geology (undergraduate majors)
Senior Seminar/Capstone (undergraduate majors)
Igneous and metamorphic petrology (undergraduate- and graduate-level)
Stable isotope geochemistry (undergraduate- and graduate-level)
Radiogenic isotope geochemistry (undergraduate- and graduate-level)
Paleoclimatology and Paleoceanography (graduate-level)
Methods in stable isotope geochemistry (graduate-level)
Analytical methods (graduate-level)
Geochemical Kinetics (graduate-level)
Tectonics of the Southern Appalachians (graduate-level)

Tectonics of the Scandinavian Caledonides (graduate-level)
Tectonics of the Himalaya (graduate-level)
Tectonics and climate change (graduate-level)

Field Work

North America:

New England Appalachians (Vermont, New Hampshire; 1986-1995, 1998, 2022)
Grenville Province, Central Ontario, Adirondacks (1992, 1995)
Death Valley, California (1993)
Northern New Mexico (1995)
Northern California (1998, 1999, 2013)
Southern Appalachians (Tennessee, North Carolina; 1999-2005)
Central and southeastern Oregon (2000-2005)
Southern Colorado, northern New Mexico (field camp; 2004-2008)
Northwest Nebraska and East Central Wyoming (2005-2006)
Santa Catalina Island, California (2013-2016)
NW Nevada (2025)

Asia:

Central Nepal (1997, 2001, 2014)
Western Turkey (2006)
NW India (2007, 2009, 2018, 2023)
Bhutan (2008, 2011)
China and Tibet (2021, 2024)

South America:

Southern Chile (1987)
Southern Argentina (2009, 2010, 2012, 2015)
Northern Argentina (2016)

Europe:

Austria (1993, 2023)
Switzerland (1993, 2009)
Italy (2009, 2017, 2024)
Northern Norway (2010)
France (2019)
Greece (2019)

Africa:

Mozambique (2015)

Service (external):

Member, MSA Short Course Committee (2023-)
Editor, Treatise on Geochemistry, volume 2 “Earth’s Lithosphere” (2021-2024)
Chair, AGU/VGP Kuno (young scientist) Award Committee (2019-2022)
Member, Executive Committee, AGU/VGP (2019-2022)
GPPC representative, GSA Rocky Mountain Section (2018-2021)
Member, GSA Geology and Public Policy Committee (2018-2021)
Member, AGU/VGP Kuno (young scientist) Award Committee (2018-2022)
Chair, Dana Award Committee, Mineralogical Society of America (2016-2017)
Member, Mineralogical Society of America Centennial Committee (2015-2018)
Chair, Mineralogical Society of America Nominations Committee (2015-2016)
Councilor (elected), Mineralogical Society of America (2015-2017)
Theme Session Co-Chair, “Mineralogy and Mineral Physics” Goldschmidt Meeting (2015-2016)
Chair, MSA Shortcourse Committee (2014-2015)
Chair, GSA Mineralogy-Geochemistry-Petrology-Volcanology Award committee (2013-2015)
Member, GSA Mineralogy-Geochemistry-Petrology-Volcanology Award committee (2012-2015)
Member, MSA Shortcourse Committee (2012-2016)
Secretary (elected), Volcanology-Geochemistry-Petrology section, AGU (2010-2012)
Member, Executive Committee, VGP section, AGU (2010-2012)
Member, Proposal Review Panel, NSF (2007-2009, 2015, 2017)
Member, Development Committee, SVP (2005-2015)
Member, Bowen Award Committee, VGP, AGU (2004-2006)
Editor, Reviews in Mineralogy and Geochemistry (2001-2002, 2006-2007, 2016-2017)
AE: Geological Society of America Bulletin (2001-2010)
AE: Journal of Geophysical Research (1998-2001)
Member, Proposal Review Panel, IGPP-LLNL (1998)

Reviewer for Funding Agencies (16):

US National Science Foundation:
- Anthropology
- Continental Dynamics
- Instrumentation and Facilities
- Major Research Instrumentation
- Petrology & Geochemistry
- Post-doctoral Fellows
- Sedimentary Geology and Paleobiology
- Tectonics

German Research Foundation
Graduate Women in Science
IGPP-LLNL
Leakey Foundation
Petroleum Research Fund
Polish National Science Centre
Stanford Synchrotron Radiation Lightsource (SLAC National Accelerator Laboratory)
Swiss National Science Foundation

Reviewer for Journals (36):

American Journal of Physical Anthropology
American Journal of Science
American Mineralogist
Biogeography
Canadian Mineralogist
Chemical Geology
Contributions to Mineralogy and Petrology
Current Anthropology
Earth and Planetary Science Letters
Geochimica et Cosmochimica Acta
Geological Society of America Bulletin
Geology
Geosphere
Geostandards and Geoanalytical Research
Journal of Archaeological Science
Journal of Biogeography
Journal of Ecology
Journal of Geology
Journal of the Geological Society
Journal of Geophysical Research
Journal of Metamorphic Geology
Journal of Petrology
Journal of South American Earth Sciences
Nature
Nature Communications
Oecologia
Ore Geology Reviews
Palaeogeography, Palaeoclimatology, Palaeoecology
Palaios
Paleobiology
PLoS One
Proceedings of the Idaho Academy of Science
Proceedings of the National Academy of Sciences
Quaternary Science Reviews
Science
Science Advances

Other Review:

IPCC AR6, chapters 1, 2, 3, 5, 7, 8, 9

Service (internal – college, university, or administrative positions only):

Chair, Tenure and Promotion Committee, Department of Geosciences (2017-2021, 2022-present)
Member, Department Leadership Council (Geosciences) (2023-present)
Chair, Assistant Teaching Professor in Climate Search Committee (2024-2025)
Member, BSU Interdisciplinary Studies Committee (2008-present)
Chair, Geophysics Faculty Search Committee (2023-2024)
Judge, Graduate Student Showcase, Graduate College (2021-2024)
Chair, BSU Distinguished Professor Award Committee (2017-2019)
Chair, College of Arts and Sciences Tenure and Promotion Committee (2018-2019)
Chair, Department of Geosciences Lecturer Search Committee (2018-2019)
Member, BSU Distinguished Professor Award Committee (2011- 2023)
Member, BSU Marshall Scholarship Committee (2015)
Member, BSU Honorary Doctorate Committee (2010-2013)
Member, BSU Employee Campaign Committee (2009-2011)
Member, BSU College of Arts and Sciences Awards and Honors Committee (2009-2011, 2016-2017, 2018-2019)
Director, Field Camp, Geological Sciences, USC (2005-2007)
Director, Undergraduate Studies, Geological Sciences, USC (2004-2005)
Member Electron Microscopy Center Advisory Committee, USC (2000-2006)
Chair, Ethics Committee, Geological Sciences, USC (1999-2006)

Successful nominations and support for awards and recognitions:

AGU Bucher Medal (union award): Mark Harrison, Frank Spear
GSA Donath Medal (young scientist award): Elizabeth Catlos, Carmala Garzione
GSA Fellow: Dan Breecker, Bonnie Jacobs, Nadine McQuarrie, Delores Robinson, Caroline Strömberg, Bishal Upreti (international)
Metamorphic Studies Group Barrow Award: Pierre Lanari, Frank Spear
MSA Dana Medal (mid-career award): Daniela Rubatto, Frank Spear
SEPM Dickinson Medal (mid-career award): Carmala Garzione

Professional development workshops and webinars (*bold* = multi-day)

Boise State University (134 hours total):

2025 Access, accommodations and working with blind and low vision students. Spring, 2025, 1 hour

Student engagement techniques. Spring 2025, 1 hour

CITI training, Biosafety essentials. Spring 2025, 5 hours

CITI training, OSHA bloodborne pathogens. Spring 2025, 2 hours.

Cybersecurity awareness training (state-mandated). Spring, 2025, 1 hour

Workplace Training (state-mandated). Spring, 2025, 1 hour

2024 Artificial Intelligence 101. Spring, 2024, 1 hour

Cybersecurity awareness training (state-mandated). Spring, 2024, 1 hour.

Trauma-informed teaching. Spring, 2024, 2 hours.

Partners in student success: Integrating library resources in Canvas. Spring 2024, 1 hour

Hearing from your students: Strategies for soliciting mid-semester feedback. Fall 2024, 2 hours

AI prompt engineering for students. Fall 2024, 1.5 hours

2023 Respectful workplace training. Spring, 2023, 1 hour

Cybersecurity awareness training (state-mandated). Spring, 2023, 1 hour.

Queer Idaho History. Fall, 2023, 1 ¼ hours.

Cybersecurity awareness training (state-mandated). Fall, 2023, 1 hour.

Maintaining academic integrity in the age of artificial intelligence. Fall, 2023, 1 ¼ hours.

2022 Strategies for helping students feel heard. Spring, 2022, 1 hour

Responding to multilingual writers. Spring, 2022, 1 hour

Using online educational resources inclusively. Spring, 2022, 1 ½ hours

Supporting first-generation students. Spring, 2022, 3 hours

Cybersecurity awareness training (state-mandated). Spring, 2022, 1 hour

CITI training, Responsible Conduct of Research, Physical Sciences. Fall, 2022, 5 hours

CITI training, Social and Behavioral Researchers (IRB). Fall, 2022, 2 hours

CITI training, Foreign influence. Fall, 2022, 1 hour

Cybersecurity awareness training (state-mandated). Fall, 2022, 1 hour

LGBTQIA+ fundamentals. Fall, 2022, 1 hour

LGBTQIA+ allyship. Fall, 2022, 1 hour

2021 Multilingual students' advice for their instructors. Spring, 2021, 1 hour

Multilingual students and timed testing: What's Fair? Spring, 2021, 1 hour

2020 Building team growth mindset: Ways to help students learn from team projects, Spring, 2020, 1 hour

Online flexible teaching institute, Summer, 2020, 3 weeks (36 hours).

2019 Inclusive mentoring strategies in graduate education, Spring, 2019, 1 hour

The class ceiling in higher education: policies and practices that perpetuate class-based inequality, Spring, 2019, 1 hour

CITI training, Social and Behavioral Researchers (IRB), Fall, 2019, 2 hours

2018 **Course Design Institute. Summer, 2018, 1 week (36 hours).**

Integrating research and teaching: Three approaches, Fall, 2018, 1 hour

2017 Inclusive excellence at Boise State: Creating an environment that values and supports all members, Fall 2017, 1 hour

Addressing barriers for students facing mental health challenges, Fall, 2017, 1 hour

Microaggresssions in the classroom: What are they and what can I do about them? Fall, 2017, 1 hour

Just-in-Time teaching, Spring, 2018, 1 hour

2016 CITI training, Social and Behavioral Researchers (IRB). Fall, 2016, 6 hours

Society- or industry-sponsored (125 hours total):

2024 **NOLS: Hybrid Wilderness First Responder recertification. Winter, 2024, 24 hours total**

2023 **NOLS: Hybrid Wilderness First Responder training. Spring, 2023, 30 hours online + 5 days in-person (80 hours total)**

2022 AGU: Building antiracist spaces. Spring, 2022, 1 hour

NAGT: Climate survey of the Geosciences: Disproportionate impacts on historically excluded groups. Spring, 2022, 1 hour.

NAGT: Building inclusive communities for research and scholarly activities. Spring, 2022, 1 hour

AGU/AGI Heads & Chairs webinar – The not so great outdoors? Questioning how we recruit students from historically marginalized communities into the geosciences. Spring, 2022, 1 hour

AGU Honors program sections committee chairs training and implicit bias training. Spring, 2022, 1 hour

NAGT: Towards a more inclusive geosciences: Teaching strategies and policies to support all students. Summer, 2022, 1 hour

NAGT: Promotion, tenure, and the value of diversity, equity, and inclusion work. Summer 2022, 1 hour.

2021 AGU: Share and learn: leading DEI practices and other potential initiatives for AGU sections. Spring, 2021, 1 hour

CONVERGE: Understanding and ending gender-based violence in fieldwork training module: A demonstration webinar, Spring 2021, 1 hour

2018 **NAGT traveling workshop, Fall, 2018, 2 days (12 hours)**

Publications († = ≥100 citations; †† = ≥250 citations; ††† = ≥500 citations; †††† = ≥1000 citations; Google basis)

Books: 4 books edited, 2 textbooks coauthored, 1 popular book authored.

2025 (7) **Kohn, MJ**, editor, (2025) Treatise on Geochemistry, 3rd edition, volume 2 – Earth's Lithosphere. Elsevier, 1018 pp.

(6) Glazner, A and **Kohn, MJ** (2025) Petrology and Plate Tectonics – an Earth Systems Approach. Oxford University Press. 630 pp.

2024 (5) Perkins, D, **Kohn, MJ**, and Brady, JB (2024) Optical Mineralogy: an open-source textbook for college-level students and educators (online textbook, 1st ed., July 2024) https://optical.minpet.org/.

2023 (4) **Kohn, MJ** (2023) Tested: Adventures of an American Scientist in Pandemic China. Two-Track Press. 383 pp.

2017 (3) **Kohn, MJ**, Engi, M, and Lanari, P, editors, (2017) Petrochronology: Methods and Applications. Rev. Mineral. Geochem., v. **83**, Mineralogical Society of America and Geochemical Society, Washington, D.C. 575 pp.

2007 (2) **Kohn, MJ**, editor, (2007) Paleoaltimetry: Geochemical and Thermodynamic Approaches. Rev. Mineral. Geochem., v. **66**, Mineralogical Society of America and Geochemical Society, Washington D.C. 278 pp.

††2002 (1) **Kohn, MJ**, Rakovan, J, and Hughes, J, editors, (2002) Phosphates: Geochemical, Geobiological and Materials Importance. Rev. Mineral. Geochem., v. 48, Mineralogical Society of America and Geochemical Society, Washington, D.C. 742 pp.

Articles: 167 peer-reviewed papers published or in press. After 1991, double underlined names are undergraduate students; underlined names are graduate students; Google Stats: >21,000 citations, h=78

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Ionescu, A, Long, SP, **Kohn, MJ**, Larson, KP, Soignard, E and Thompson, J (2025) Structural data and thermometry indicate that the Tso Morari UHP nappe (Indian Himalaya) was emplaced as a large-scale, structurally coherent sheet. Tectonics, in review.

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Kohn, MJ and Schwartz, D (2025) Revision of Y^{3+} in common minerals based on trace element partitioning. Am. Mineral., in press.

Reynard, LM and **Kohn, MJ** (2025) Oxygen and hydrogen isotope compositions in dentine collagen correlate strongly with oxygen isotope compositions of enamel carbonate. Geochim. Cosmochim. Acta, in review.

Ding, H-X, Zhang, Z-M, and **Kohn, MJ** (2025) "S-type" granites generated from I-type sources. PNAS. In review.

Stiles, E, Strömberg, CAE, Canares, BAD, Gelfo, JN, Sol Raigemborn, M, **Kohn, MJ**, Trayler, RB, Ibañez-Mejia, M, Erra, G, and Goin, F (2025) Phytoliths reveal Paleocene forest expansions preceded dryland vegetation in southern South America, GSA Bulletin, In review.

2025 (163) Corecco, L, **Kohn, MJ**, Pereira, VP, Reynard, LM, and Schultz, CL (2025) Paleoenvironmental and paleoecological reconstruction of Santa Maria Supersequence units (Middle to Late Triassic, Brazil) based on preliminary stable isotope data: influence of the Carnian Pluvial Event. Chem. Geol., **674**, 122589.

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28 ***Kohn, MJ**, Miselis, J, and Fremd T (2001) Oxygen isotope systematics of fossil equid teeth from central and southeastern Oregon over the last 27 Ma. PaleoBios, **21**, 80.

27 **Kohn, MJ** and Miselis, JL (2000) Oxygen isotope evidence from fossil teeth for progressive Miocene uplift of the central Cascade Range, Oregon. GSA abs. prog., **32**, A299.

26 **Kohn, MJ**, Catlos, EL, Ryerson, FJ, and Harrison, TM (1999) Metamorphic P-T discontinuity at the base of the MCT zone, central Nepal. EOS, **80**, F990-F991.

25 **Kohn, MJ**, Quade, J, and Ryerson, FJ (1999) An early monsoon: monitoring uplift of the Tibetan Plateau via fossil tooth enamel. GSA abs. prog., **31**, A66.

24 ***Kohn, MJ** (1998) Deciphering mammal $^{18}O/^{16}O$: myths and models. Soc. Vert. Paleo. Nat'l meeting.

23 **Kohn, MJ** (1998) Why most “dry” rocks should cool “wet”. EOS, spring AGU meeting.

22 **Kohn, MJ**, Schoeninger, MJ, and Barker, WW (1997) Tooth diagenesis: implications for paleoclimate and paleobiology studies. GSA abs. prog., **29**, A213.

21 Spear, FS and **Kohn, MJ** (1996) Trace element zoning in garnet as a monitor of dehydration melting. GSA abs. prog., **28**, A356.

20 **Kohn, MJ**, Schoeninger, MJ, and Valley, JW (1996) Oxygen isotope variations in tooth enamel: a measure of seasonality. GSA abs. prog., **28**, A341.

19 ***Kohn, MJ**, Valley, JW, and Schoeninger, MJ (1995) Laser probe analyses of teeth: a new approach reveals oxygen isotope heterogeneity. GSA abs. prog., **27**, A26

18 **Kohn, MJ**, Valley, JW, and Schoeninger, MJ (1995) $\delta^{18}O$ of modern East African herbivore teeth: drinking vs. diet. American Chemical Society.

17 **Kohn, MJ** and Valley, JW (1995) Empirical calibration of oxygen isotope fractionations: approaches and some simple examples. V. M. Goldschmidt abs. prog., 62.

16 **Kohn, MJ** and Valley, JW (1994) The effects of cation substitutions on oxygen isotope partitioning: preliminary data from Fe-Mg and calcic amphiboles. GSA abs. prog., **26** .

15 **Kohn, MJ** and Valley, JW (1994) Oxygen isotope constraints on metamorphic fluid flow, Townshend dam, Vermont, USA. ICOG, **8**, 177.

14 ***Kohn, MJ** (1993) Tectonic implications of P-T-t paths from Cordillera Darwin, southern Chile. GSA abs. prog., **25**, A423.

13 **Kohn, MJ** and Valley, JW (1993) High-T fluids in the Fall Mountain nappe, southwestern New Hampshire: infiltration vs. anatexis. EOS, **74**, 332.

12 ***Kohn, MJ** and Valley, JW (1993) Disparate patterns of oxygen isotope zonation in garnet: all products of closed system metamorphism. Eur. Union of Geosci., Terra abstracts, **5**, 373.

11 **Kohn, MJ**, Valley, JW, Elsenheimer, D, and Spicuzza, MJ (1992) Oxygen isotope zoning in garnet and staurolite from Tierra del Fuego, Chile: Evidence for closed system mineral growth during regional metamorphism. GSA abs. prog., **24**, A250.

10 **Kohn, MJ** (1992) Modeling of prograde mineral $\delta^{18}O$ changes in chemically closed metamorphic systems. EOS, **73**, 326.

9 **Kohn, MJ**, Spear, FS, and Dalziel, IWD (1991) Rapid cooling following exhumation in the Cordillera Darwin metamorphic complex, Tierra del Fuego, Chile. GSA abs. prog., **23**, A134.

8 **Kohn, MJ**, Kimball, KL, and Evans, CA (1991) Cr-Al zoning in spinels as a monitor of hydrothermal alteration in abyssal ultramafic rocks. EOS, **72**, 313.

7 **Kohn, MJ** and Spear, FS (1991) Petrologic investigation of basement-cover relations in the Bronson Hill anticlinorium of southwestern New Hampshire: Evidence for a major structural discontinuity. GSA abs. prog., **23**, 54.

6 **Kohn, MJ** and Spear, FS (1990) Composition space analysis of margarite-bearing rocks from western New Hampshire with implications for the MnCKFMASH system, GSA abs. prog., **22**, A258.

5 **Kohn, MJ**, Spear, FS, and Dalziel, IWD (1989) Metamorphic P-T paths from a Cordilleran core complex, Cordillera Darwin, Tierra del Fuego, Chile. GSA abs. prog., **21**, A140-A141.

4 **Kohn, MJ** and Spear, FS (1989) Realistic propagation of experimental uncertainties in geological barometry: The "true" story. EOS, **70**, 492.

3 **Kohn, MJ** and Spear, FS (1989) Acadian pressure, temperature, and deformational history of west-central New Hampshire: Hot thrusts over cold basement. GSA abs. prog., **21**, 27.

2 **Kohn, MJ** and Spear, FS (1988) Nappe-stage compression followed by dome-stage cooling: Acadian P-T paths and thermal evolution of west-central New Hampshire. EOS, **69**, 508.

1 **Kohn, MJ** and Spear, FS (1987) Two geobarometers for garnet-bearing amphibolites. GSA abs. prog., **19**, 731.

Other Abstracts:

145. Shah, SA, **Kohn, MJ**. Long, SP, Ionescu, A, Vervoort, J, Baker, P, and Sachan, H (2025) Constant 50 Ma Lu-Hf garnet ages across the 100 km Tso Morari complex indicate the exhumation of a coherent UHP thrust sheet. Eclogite/Penrose Conference, Rohnert Park, CA.
144. Yakymchuk, C, and **Kohn, MJ** (2025) Chemical mohometry? A petrological modeling interrogation. Goldschmidt annual meeting, Prague.
143. Farfan, GA, Fink, JT, Negrete, M, **Kohn, MJ**, Rakovan, JF, Hsu, TY, Bemis, KE, and Hawkins, MT (2025) Crystal structure and chemistry of enamel and enameloid bioapatite from across the Tree of Life. Goldschmidt annual meeting, Prague.

142 Fink, JT, Farfan, GA, Rakovan, JF, **Kohn, MJ**, Bemis, KE, Hsu, TY, Hawkins, MT (2024) Unit cell refinements of enamel and enameloid bioapatite from across the tree of life. AGU fall meeting, Washington, DC

141 Markthaler, M, Thompson, J, **Kohn, MJ**, Shah, S, Ionescu, A, Long, S, and Schwartz, D (2024) Moving mountains: determining temperature distribution in the Himalaya's earliest metamorphic rocks. Idaho Mining Conference, Boise.

140 Thompson, J, Markthaler, M, **Kohn, MJ**, Shah, S, Ionescu, A, Long, S, and Schwartz, D (2024) Breaking new ground and revisiting the old: sampling underexplored regions of northernmost India while reassessing age and temperature the Himalaya's most studied metamorphic rock. Idaho Mining Conference, Boise.

139 Markthaler, M, Thompson, J, **Kohn, MJ**, Shah, S, Ionescu, A, Long, S, and Schwartz, D (2024) Moving mountains: determining temperature distribution in the Himalaya's earliest metamorphic rocks. GSA annual meeting, Anaheim.

138 Fink, J, **Kohn, MJ**, and Mazumder, B (2024) Characterization of rare earth elements in fossilized enamel bioapatite for atom probe tomography. GSA annual meeting, Anaheim.

137 Shah, S, **Kohn, MJ**, Argles, T, Cizina, M, Corrie, S, Croft, K, Ionescu, A, Kharya, A, Long, S, Robinson, D, and Sachan, HK (2024) Discovery of a Neoproterozoic arc in the NW Himalaya – tectonic implications. GSA annual meeting, Anaheim.

136 Ionescu, A, Long, SP, **Kohn, MJ** (2024) Geologic map of the Tso Morari ultrahigh pressure nappe, northwestern Indian Himalaya: implications for construction of a large-scale coherent UHP thrust sheet. GSA annual meeting, Anaheim.

135 Ionescu, A, Long, SP, **Kohn, MJ**, Larson, KP, and Soignard, E (2024) Spatial patterns of peak temperature, finite strain, and CPO intensity in the Tso Morari UHP nappe and overlying nappes, northwestern Indian Himalaya: implications for the construction of UHP nappes. GSA annual meeting, Anaheim.

134 Perkins, D., Brady, J., and **Kohn, MJ** (2024) Online optical mineralogy – a new free resource for teaching mineralogy. GSA annual meeting, Anaheim.

133 Shah, S, **Kohn, MJ**, Argles, T, Cizina, M, Corrie, S, Croft, K, Ionescu, A, Kharya, A, Long, S, Robinson, D, and Sachan, HK (2024) Discovery of an ancient volcanic arc in the northwest Himalaya, India. Graduate student showcase, Boise.

132 Fink, J, **Kohn, MJ**, and Mazumder, B (2024) Characterization of rare earth elements in fossilized enamel bioapatite for atom probe tomography. Graduate student showcase, Boise.

131 Markthaler, M, Thompson, J, **Kohn, MJ**, Shah, S, Ionescu, A, Long, S, and Schwartz, D (2024) Moving mountains: determining temperature distribution in the Himalaya's earliest metamorphic rocks. Undergraduate student showcase, Boise.

130 Thomas, A and **Kohn, MJ** (2024) Using Raman spectroscopy to validate metamorphic P-T paths from western New Hampshire. Northeast GSA meeting, Manchester.

129 Byrne, A, **Kohn, MJ**, Reynard, L, and Plew, M (2023) Oxygen and carbon isotopes in modern and historic mussels from the Snake River, Idaho, may show modern rise of corn production. Undergraduate Research Showcase, Boise State University.

128 Stiles, E, Strömberg, CAE, Canares, B, Erra, G., Gelfo, JN, Goin, F, **Kohn, MJ**, Madden, RH, Trayler, RB, Bauzá, N., and Galleher, T (2023) Early South American grasses (Paleocene-Eocene) occupied forested ecosystems. Botanical Society of America annual meeting.

127 Kerswell, B and **Kohn, MJ** (2022) A comparison of surface heat flow interpolations near subduction zones. AGU Fall meeting, Chicago.

126 Long, S, **Kohn, MJ**, Kerswell, B, Starnes, J, Larson, K, Blackford, N, and Soignard, E (2021) Protracted Eocene to Oligocene exhumation of the Tso Morari UHP nappe, northwestern Himalaya: insights from thermometry and microstructural analysis. AGU Fall meeting, New Orleans.

125 Phillips, A, Crowther, E, Reynard, LM, and **Kohn MJ** (2021) Testing the validity of Bogus Basin Ponderosa Pines as an atmospheric CO2 climate proxy. Boise State Undergraduate Research Symposium.

124 Ranck, SR, Schwartz, D, Reynard, LM, **Kohn, MJ**, and Heath, JA (2021) Drivers and patterns of individual migration strategies in a partially migratory population of American Kestrels (Falco sparverius). Annual Meeting Raptor Research Foundation.

123 DuPree, K, Reynard, LM, Belthoff, JR and **Kohn MJ** (2021) Do barn owls flock to Idaho only to meet their demise?: An analysis of the geographic origin of road-killed owls along an interstate highway. Annual Meeting Raptor Research Foundation.

122 DuPree, K, Reynard, LM, Belthoff, JR and **Kohn MJ** (2021) Do barn owls flock to Idaho only to meet their demise?: An analysis of the geographic origin of road-killed owls along an interstate highway. Idaho Conference on Undergraduate Research.

121 Croft, KL, Schwartz, D, Sachan, H, and **Kohn MJ** (2021) Unusual hydrothermal rims on igneous zircons, Tso Morari Complex, Ladakh, India. Boise State Undergraduate Research Symposium

120 Yao, J, Castro, AE, **Kohn, MJ**, and Spear FS (2021) Garnet nucleation overstepping: a potential mechanism for fluid production within the seismic-aseismic transition in subduction zones. Northeast GSA annual meeting.

119 Couch, S, **Kohn, MJ**, Cizina, MF, Croft, KL, and Garber, JM (2020) Petrologic re-evaluation of classic Tauern Window (Austria) rocks corroborates the first P-T path calculated from chemical zoning in garnet. AGU Fall meeting, San Francisco.

118 Long, SP and **Kohn, MJ** (2020) Distributed ductile thinning (DDT) during thrusting: an overlooked exhumation mechanism for mid-crustal rocks. AGU Fall meeting, San Francisco.

117 Schroeder, K, Cizina, MF, Couch, S, and **Kohn MJ** (2020) When Earth's tectonic plates collide: Reevaluation of the pressure and temperature history of metamorphic rocks in the eastern Alps. Boise State Undergraduate Research Symposium

116 Crifo, C, Bargo, MS, Cuitiño, JI, Kay, RF, **Kohn, MJ**, Trayler, RB, Vizcaíno, SF, Zucol, AF, and Strömberg, CAE (2020) Habitat heterogeneity and vegetation response to the middle-Miocene climatic optimum in the Santa Cruz Formation (Patagonia). Midcontinental Paleobotanical Colloquium

115 Stiles, E, Strömberg, CAE, Erra, G, Gelfo, J, Goin, F, **Kohn, MJ**, Madden, RH, Trayler, RB, Bauzá, N, Gallaher, T, Iglesias, A (2020) Paleocene – Eocene vegetation and early grass ecology in the San Jorge Basin of Argentine Patagonia. Midcontinental Paleobotanical Colloquium

114 Howell, A, and **Kohn, MJ** (2019) Physical (Elastic) vs. Chemical (Thermodynamic) Disparities in Reconstructing Pressure Temperature Paths for Alpine Metamorphic Rocks. Undergraduate Research Symposium, Boise State University.

113 Kerswell, B, **Kohn, MJ**, and Gerya, T (2019) Backarc Thermal Structure Controls Slab-Mantle Viscous Coupling Depth in Subduction Zones. Graduate Student Showcase, Boise State University.

112 Baker, R, **Kohn, MJ**, Penniston-Dorland, SC, and Feineman, MD (2019) Benefits of International Collaboration for Professional and Scholar-Network Development: A 4-year Evaluation of NSF PIRE: E-FIRE. AGU Fall Meeting, San Francisco.

111 Cizina, MF, **Kohn, MJ**, Mikesell, D, and Trayler, R (2019) Optimizing Raman analyses of quartz and zircon inclusions in garnet. AGU Fall Meeting, San Francisco.

110 Howell, A, and **Kohn, MJ** (2019) Disparities in reconstructing pressure temperature paths for Alpine metamorphic rocks: elastic geobarometry vs. thermodynamics. AGU Fall Meeting, San Francisco.

109 Hervig, RL, **Kohn, MJ**, Drewicz, A, (2019) Experimental evidence for slow diffusion of trace elements in tooth enamel. AGU Fall Meeting, San Francisco.

108 Penniston-Dorland, S, Harvey, KM, Walker, S, Starr, PG, **Kohn, MJ**, Baxter, E (2019) Evaluating the Timescales of Tectonic Mélange-forming Processes Using Sm-Nd Garnet Geochronology. AGU Fall Meeting, San Francisco.

107 *Suarez, C, **Kohn, MJ**, Suarez, MB, Travis Taylor, LM, Yamamura, D, Jackson, T, Oberg, D, Park Boush, LE, Minzoni, RT, Titus, A, Tompkins, T, Frucci, MN, Antonietto, LS (2019) Big to small: biogeochemical signals of dinosaurs to ostracods and everything in between. GSA annual meeting, Phoenix.

106 Liu, X-C, Wu, F-Y, **Kohn, MJ**, Liu, Z-C, Yang, L, Ji, W-Q (2019) Two-mica granite as a complement to crystal accumulation: Insights from the Eocene Lhunze pluton-subvolcanic complex, South Tibet. HKT conference, Bozeman

105 Crifò, C, Bargo, MS, Cuitiño, JI, Kay, RF, **Kohn, MJ**, Trayler, RB, Vizcaíno, SF, Zucol, AF, Strömberg, CAE (2018), Phytolith assemblages record vegetation history during the Middle Miocene Climatic Optimum in the coastal Santa Cruz Formation, Patagonia, Argentina. AGU annual meeting, Washington, D.C.

104 Harvey, KM, Starr, PG, Walker, S, Penniston-Dorland, SC, **Kohn, MJ**, Baxter, E (2018) Petrochronologic constraints on the thermal evolution of the Catalina Schist. AGU annual meeting, Washington, D.C.

103 Trayler, R, Schmitz, M, and **Kohn, MJ** (2018) Using varied data types to assign realistic age uncertainties to stratigraphic sequences and proxy records. GSA abs. prog., **50**.

102 Castro, AE, Spear, FS, and **Kohn, MJ** (2018). Shear heating in subduction zones: implications for thermal models and metamorphic P-T paths. GSA abs. prog., **50**, n2

101 Kerswell, B, Gerya, T. and **Kohn, MJ** (2018). A physical mechanism explaining the common depth of slab-mantle coupling and formation of a rheologic backstop at ~80 km depth: Goldschmidt Conference Abstracts.

100 Crifo, C, Bargo, MS, Cuitiño, JI, Kay, RF, **Kohn, MJ**, Trayler, RB, Vizcaíno, SF, Zucol, AF, and Strömberg, CAE (2018) Habitat shift during the Middle Miocene climatic optimum of southern Patagonia recorded in phytolith assemblages. International Paleontological Congress, Paris.

99 Drewicz, AE and **Kohn, MJ** (2017) Stable isotopes in large herbivore tooth enamel capture a mid-Miocene precipitation spike in the interior Pacific Northwest. AGU annual meeting, New Orleans.

98 Castro, AE, Spear, FS, and **Kohn, MJ** (2017) Shear heating and metamorphism in subduction zones, 2. The seismic-aseismic transition at 50 km depth. AGU annual meeting, New Orleans.

97 Crifo, C, Bargo, MS, Cuitiño, JI, Kay, RF, **Kohn, MJ**, Trayler, RB, Vizcaíno, SF, Zucol, AF, and Strömberg, CAE (2017) Fossil phytolith assemblages from Southern Patagonia indicate changing habitats during the Middle Miocene Climatic Optimum. GSA annual meeting, Seattle.

96 Harvey, KM, Penniston-Dorland, SC, and **Kohn, MJ** (2017) Origin of exotic blocks in the Catalina schist: implications for movement along the subduction interface. GSA annual meeting, Seattle.

95 Trayler, RB, **Kohn, MJ**, Bargo, S, Cuitiño, JI, Kay RF, Strömberg, CAE, and Vizcaíno, SF (2017) Ecology and climate of the Miocene Santa Cruz Formation, Argentina. GSA annual meeting, Seattle.

94 Trayler, RB, Schmitz, MD, Bargo, S, Cuitiño, JI, Kay RF, **Kohn, MJ**, Strömberg, CAE, and Vizcaíno, SF (2017) A new approach for developing continuous age-depth models from dispersed chronologic data: applications to the Miocene Santa Cruz Formation, Argentina. GSA annual meeting, Seattle.

93 Moran, KA, Johnson, DH, Evans, S, **Kohn, MJ**, and Belthoff (2016) Investigation of the Geographic Origin of Burrowing Owl Fleas with Implications for the Ecology of Plague. Idaho Conference on Undergraduate Research, Boise.

92 *Strömberg, CAE, Dunn, RE, Madden, RH, **Kohn, MJ**, and Carlini, AA (2016) The curious case of Cenozoic South America: Assembling the grassland biome with almost no grasses. International Meeting for Phytolith Research, Aix-en-Provence.

91 Crifò, C, Bargo, MS, Kay, RF, **Kohn, MJ**, Vizcaíno, SF, Zucol, AF, and Strömberg, CAE (2016) Using phytolith to track vegetation changes during the MMCO of the Santa Cruz Formation, Patagonia (Argentina). Annual meeting of the International Palynological Conference/ International Organization of Botany Conference, Brazil.

90 Penniston-Dorland, SC, **Kohn, MJ**, Piccoli, PM (2016) Zr-in-rutile thermometry of the Catalina Schist mélange, estimating a_{SiO2} in the absence of quartz, and implications for subduction interface rheology. GSA annual meeting, Denver.

89 Trayler, R, and **Kohn, MJ** (2016) Enamel maturation resets appositional isotope compositions. GSA annual meeting, Denver.

88 Drewicz, AE, **Kohn, MJ**, Pigati, JS and Springer, KB (2016) Understanding seasonal precipitation in the upper Las Vegas Wash during the late Quaternary using stable carbon and oxygen isotopes in fossil teeth and tufa. GSA annual meeting, Denver.

87 Trayler, R, and **Kohn, MJ** (2016) Enamel maturation is independent of appositional geometry. Society of Vertebrate Paleontology annual meeting, Salt Lake City.

86 Hartmann, CM, Evans, SL, **Kohn, MJ**, and Heath, JA (2016) Investigating deuterium depletion in American Kestrel (*Falco sparverius*) nestlings using growth rates. Idaho Conference for Undergraduate Research. Boise, ID.

85 Callery, KR, Burden, S, Hayden, EJ, Hartmann, CM, Evans, SL, **Kohn, MJ** and Heath JA (2016) What is more costly? The effect of migration and resident wintering strategies on telomeres of American Kestrels (*Falco sparverius*). Idaho Conference for Undergraduate Research. Boise, ID.

84 Vizcaíno, SF, Bargo, MS, Fernicola, JC, Cuitiño, JI, Trayler, R, **Kohn, M**, Kay, RF, Toledo, N, and Muñoz, NA (2016) The Cañadón de Las Vacas-Rincón del Buque area: preliminary correlations with other Santacrucian (Early Miocene, Patagonia) localities. Congress Asociación Paleontológica Argentina.

83 Pucéat, E, Skrzypek, G, Joachimski, MM, **Kohn, MJ**, Dennis, K, Lécuyer, C, and Evans, S (2016) Determination of the stable oxygen isotope composition of bioapatites: an interlaboratory comparison study. Goldschmidt meeting, Yokohama.

82 Penniston-Dorland, SC, **Kohn, MJ**, and Piccoli, P (2016) A mélange of subduction temperatures: Zr-in-rutile thermometry of the Catalina Schist and implications for subduction interface rheology. Goldschmidt meeting, Yokohama.

81 Penniston-Dorland, SC, **Kohn, MJ**, and Piccoli, P (2016) Zr-in-rutile thermometry of the Catalina Schist and implications for subduction rheology. EGU annual meeting, Vienna.

80 Hartmann, C, **Kohn, MJ**, Evans, S, and Heath, JA (2015) The use of hydrogen stable isotopes in claws to distinguish between migratory and resident birds in a partial migrant population of American kestrels (*Falco sparverius*). Raptor Research Foundation Annual Meeting.

79 Penniston-Dorland, SC, **Kohn, MJ**, and Manning, C (2015) The global range of subduction zone thermal structures from exhumed blueschists and eclogites: rocks are hotter than models. AGU annual meeting San Francisco. T13H-07.

78 Lytle, M and **Kohn, MJ** (2015) Development of a laser ablation ICP-MS rutile standard. AGU annual meeting, San Francisco. V33D-3126.

77 McNamara, J, Marshall, H-P, **Kohn, MJ**, Evans, S and Flores, A (2015) Lateral flow in snow as a runoff generation mechanism. AGU annual meeting, San Francisco. C44B-01

76 Walters, JB and **Kohn, MJ** (2015) Titanite petrochronology supports protracted transport along a high-level thrust within the Greater Himalayan Sequence, Central Nepal. AGU annual meeting, San Francisco. T13C-3022.

75 Mandal, S, Robinson, DM, **Kohn, MJ**, Das, O, Khanal, S (2015) Upper crustal structure and shortening in the Himalayan thrust belt in Kumaun, Northwest India. GSA annual meeting, Baltimore.

74 Drewicz, A, **Kohn, MJ**, and Fremd, TJ (2015). Stable isotopes in large herbivore tooth enamel show mid-Miocene soaking of central Oregon. GSA annual meeting, Baltimore.

73 *Marshall, H-P, Heilig, A, Evans, S, Robertson, M, Hetrick, H, Eirikson, D, Dean, J, Karlson, A, Hedrick, A, Bradford, J, McNamara, J, Flores, A, **Kohn, MJ**, Rodriguez, C (2014) Liquid water dynamics in unsaturated snow: the role of lateral flow. AGU annual meeting, San Francisco.

72 Selkin, PA, Strömberg, CAE, Boyle, J, Carlini, AA, Davies-Vollum, S, Dunn, R, **Kohn, MJ**, and Madden, RH (2014) The role of fire during the Eocene-Oligocene transition in southern South America. AGU annual meeting, San Francisco.

71 Penniston-Dorland, SC, **Kohn, MJ**, and Manning, C (2014) Exhumed blueschists and eclogites: Hotter than the average model. AGU annual meeting, San Francisco.

70 Fletcher, A, Judd, E, Zanazzi, A, Bryant, H, and **Kohn, MJ** (2014) Eocene-Oligocene latitudinal climate gradients in North America inferred from stable isotope ratios in perissodactyl tooth enamel. GSA Annual Meeting, Vancouver.

69 Robinson, DM, Khanal, S, **Kohn, MJ**, and Mandal, S (2014) A new model for building the Himalaya using the Greater Himalayan thrust system. GSA Annual Meeting, Vancouver.

68 Trayler, R, and **Kohn, MJ** (2014) Infrared spectroscopy of bioapatite from taxonomically diverse modern teeth – implications for diagenesis. GSA Annual Meeting, Vancouver.

67 Drewicz, A, **Kohn, MJ**, and Fremd, TJ (2014) The high, dry Miocene of southeastern Oregon. Botany 2014 conference, Boise.

66 Walters, JB and **Kohn, MJ** (2014) Examining the temperature range suitable for Quartz-in-Garnet Geoba-Raman-try. Geo-Raman conference 2014, St. Louis.

65 Trayler, R, and **Kohn, MJ** (2014) Tooth enamel maturation overprints CO_3 isotope compositions. Goldschmidt annual meeting, Sacramento.

64 Drewicz, A, **Kohn, MJ**, Evans, S., Springer, K., Manker, CR, Scott, E (2014) Seasonal moisture sources influence on desert paleowetland development during the late Pleistocene in the American Southwest. Goldschmidt annual meeting, Sacramento.

63 Penniston-Dorland, SC, **Kohn, MJ**, Piccoli, PM (2014) Zr-in-rutile thermometry of the Catalina Schist, CA, and the rheology of the slab-mantle interface. Goldschmidt annual meeting, Sacramento.

62 Strömberg, CAE, Dunn, RE, Madden, RH, **Kohn, MJ**, and Carlini, AA (2014) Evolution of grazer morphologies in the absence of grasslands in southern South America. NAPC annual meeting, Paleontological Society Special Publication, **13**, 113.

61 Suarez, CA, **Kohn, MJ** (2013) Investigation of chemical and physical changes to bioapatite during fossilization using trace element geochemistry, infrared spectroscopy and stable isotopes. AGU annual meeting, San Francisco.

60 Drewicz, AE, **Kohn, MJ**, Evans, S, Springer, KB, Manker, CR, Scott, E (2013) Desert wetland moisture sources during the Late Pleistocene in the American Southwest. GSA annual meeting, Denver.

59 Schulz, EK, **Kohn, MJ**, Nufio, CR, Evans, S, Dean, J. (2013) Chitin and body water isotopic composition in grasshopper species of northern Colorado. GSA annual meeting, Denver.

58 Penniston-Dorland, S., **Kohn, MJ**, Piccoli, PM, and McBride, H. (2013) A mélange of subduction temperatures: Zr-in-rutile and Zr-in-titanite thermometry of the Catalina schist, CA, and its tectonic implications. GSA annual meeting, Denver.

57 Strömberg, CAE, Dunn, RE, Madden, RM, **Kohn, MJ**, and Carlini, AA. (2013) Where have all the grasses gone?: New middle Miocene phytolith records reveal that grasslands played a minor role in hypsodonty evolution in southern South America. SVP annual meeting, Los Angeles.

56 MacKenzie, LA, Hinman, NW, **Kohn, MJ**, Olin, PH (2012) V23C-2847. A lethal combination of toxins and biofilms aids soft tissue fossilization. AGU annual meeting, San Francisco

55 Suarez, CA, **Kohn, MJ** (2012) V23C-2846. Assessing trace element diffusion models in fossil and sub-fossil bone. AGU annual meeting, San Francisco

54 **Kohn, MJ**, Evans, SL, Dean, J, Nufio, C (2012) B51G-0647. Stable isotope systematics in grasshopper assemblages along an elevation gradient, Colorado. AGU annual meeting, San Francisco

53 Corrie, SL, **Kohn, MJ**, Markley, C (2012) V33C-2881. Zirconium partitioning in metamorphic minerals and growth of metamorphic zircon. AGU annual meeting, San Francisco

52 Evans, SL, Heilig, A, **Kohn, MJ**, Marshall, H-P (2012) C33C-0673. Isotopic dynamics in a seasonal snowpack. AGU annual meeting, San Francisco

51 McCutcheon, R, Benner, SG, **Kohn, MJ**, Flores, AN, McNamara, JP (2012) H31B-1121. Stable isotopes of water used to trace relationships between vegetation and streamflow in a semi-arid catchment. AGU annual meeting, San Francisco

50 Tappa, DJ, Flores, AN, Benner, SG, **Kohn, MJ**, McNamara, JP, Evans, S (2012) H31B-1116. Isotopic composition of precipitation in a topographically complex, seasonally snow-dominated watershed: hydrometeorological controls and variations from the global meteoric water line. AGU annual meeting, San Francisco

49 Mandal, S, Robinson, DM and **Kohn, MJ** (2012) Tectonostratigraphic architecture of the Himalayan fold-thrust belt in Kumaon, NW India, and the correlation with western Nepal. GSA annual meeting, Charlotte.

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