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CUMULATIVE RESUME

EDUCATION

University of Nevada Reno, NV, Ph.D. 2009
Humboldt State University, Humboldt, CA: *M.S.*, Environmental Systems (Geology), 1997
University of California, Santa Cruz, CA: *B.A.*, Earth Science, 1992

DISSERTATION

Late Pleistocene regional extension rate derived from earthquake geology of late Quaternary faults across Great Basin, Nevada between 38.5° and 40°N latitude, University of Nevada Reno, Reno, Nevada, 242 p. (committee: S.G. Wesnousky, J.G. Anderson, C. Kreemer, T. Bullard, R. Siddharthan).

MASTERS THESIS

Terrace formation, drainage adjustment, and tectonic geomorphology of the Van Duzen/North Fork Eel Rivers headwater region, northern California, Humboldt State University, CA. (Committee: Gary Carver, Harvey Kelsey, Bud Burke).

PROFESSIONAL EXPERIENCE

University of Nevada, Reno, Mackay School of Earth Sciences and Engineering, and Nevada Bureau of Mines and Geology, Assistant Professor, 2015-2020, Associate Professor, Dec. 2020-date
Koehler Geohazards, LLC, Founder and Principal Geologist, 2015-date
University of Alaska, Fairbanks, Geology and Geophysics Dept., Affiliate Faculty, 2011-2015
Humboldt State University, Adjunct Faculty, 2009-2016
State of Alaska, Dept. of Geological and Geophysical Surveys, Earthquake Geologist 2009-2015
Center for Neotectonic Studies, University of Nevada, Reno, Research Assistant, 2004-2009
William Lettis & Associates, Inc., Walnut Creek, CA, Project Geologist, 1999-2004
US Geological Survey, project paleoseismologist, 10 trenches, Puget Sound, Wa, 1998-2003
Natural Resources Management Corporation, Eureka, CA, Staff Geologist, 1998-1999
Louisiana-Pacific Corporation, Calpella, CA, Watershed Geomorphologist, 1997
Humboldt State University, Humboldt, CA, Research Assistant, 1994-1997
USDA Forest Service, Cave Exploration Team, Prince of Wales and Dall Islands, Alaska, 1993

RESEARCH INTERESTS AND REPRESENTATIVE EXPERIENCE

Over the last 25 years my work has focused on earthquake geology, Quaternary geology, paleoseismology, geomorphology, and engineering geology. I have experience evaluating regional neotectonics, as well as paleoseismic histories on individual faults, and use a variety of techniques including air photo and lidar interpretation, Quaternary geologic and geomorphic mapping, soil stratigraphy, trenching, exploratory drilling, and surveying to assess geohazards in a wide variety of terrains.

I have conducted paleoseismic studies funded by the U.S. Geological Survey (NEHRP) and the National Science Foundation (NSF) throughout the western U.S. including faults in California, New Mexico, Washington, Alaska, and Nevada. My international experience includes projects in Turkey, Taiwan, Guatemala, Guinea, Jamaica, and Haiti. I have also conducted geologic studies for large infrastructure projects including: (1) potential dam sites in the northern Sacramento Valley, California for the California Department of Water Resources; (2) Pacific Gas and Electric Company's Diablo Canyon Nuclear Power Plant, San Luis Obispo, California; (3) Entergy Potomac's Grand Gulf nuclear power plant expansion in Mississippi; (4) Baku-Tbilisi-Ceyhan (BTC) crude oil pipeline, Turkey and (5) multiple proposed natural gas pipelines in Alaska.

My current work is focused on; (1) researching active faults and Quaternary geology in the Great Basin and surrounding region to better characterize seismic hazards, (2) evaluating earthquake and tsunami recurrence intervals along the Alaska-Aleutian subduction zone; and (3) assessing geologic hazards for a variety of pipeline projects.

TEACHING INTERESTS

Active Tectonics, Geologic hazards, Engineering Geology/Geomorphology, Photo/imagery/lidar Interpretation, Topics in Paleoseismology, Field methods, Quaternary Stratigraphy

TEACHING EXPERIENCE

Field Geology (GEOL 450), University of Nevada, Reno, Spring 2021, 2020, 2019, 2018, and 2017
Mapping faults from geomorphology (GEOL 701J) University of Nevada, Reno in conjunction with ASU
Fall 2020.

Summer Field Geology (GEOL 451), Quaternary section, University of Nevada, Reno, Summer 2020,
2019, 2018, 2017, and 2016.

Earthquake Engineering (GE 479), two lectures, UNR Spring 2019

Advanced Geology-Paleoseismic trenching (GEOL701j), UNR, Fall 2018

Special Problems/Independent Study (GEOL 495), University of Nevada, Reno, Spring 2018

Special Problems/Independent Study (GEOL 495), University of Nevada, Reno, Fall 2017

Introductory Field Geology (GEOL 260), University of Nevada, Reno, Spring 2016

Instructor (U. of West Indies): Spring 2009, One day field Neotectonics course, Jamaica

Teaching Assistant (HSU): Summer 2006 and 2007, Field Camp, Quaternary Section

Teaching Assistant (UNR): Spring 2007, Introductory Geology

Teaching Assistant (UNR): Spring 2006 and Spring 2007 Photo Geology

Teaching Assistant (UNR): Fall 2006, Quaternary Field Mapping

Instructor (UNR): Spring 2005, Introductory Geology

GRANTS AND CONTRACTS

- SCEC5 Year 5 Dating prior earthquakes along faults of the 2019 Ridgecrest sequence. Research Collaboration UNR and Arizona State University: Awarded ~\$25,000. Agency: Southern California Earthquake Center Start: 2/1/2021 End: 1/31/2022.
- 2021 StateMAP Proposal, Geologic mapping in Reno-Carson City urban area: Bedell Flat. Spanish Springs Peak. Como, and Parran 7.5' quadrangles (\$188,894, Koehler 23 days, \$61,000), part of larger StateMAP proposal, total amount of grant \$667,873.
- Earthquake Direct State Assistance Grant, 2020, Documentation of the M6.5 Monte Cristo earthquake: Impacts and lessons learned for Nevada (\$68,540, Koehler 10 days).
- 2020, USGS NEHRP, Liquefaction susceptibility mapping in the Reno-Sparks metropolitan area, Nevada (\$52,362).

- 2020, US Department of Energy, **IN**novative **Geothermal Exploration** through **Novel Investigations Of Undiscovered Systems (INGENIOUS)**. Awarded ~10 M. PI Ayling, multiple contributing partners, Koehler, 3 months (Lead compilation, mapping, and attribution of Quaternary faults and earthquake data).
- 2020 StateMap Proposal, Geologic mapping in Reno-Carson City urban area: north half of the Verdi 7.5' quadrangle, amount requested \$28,644, part of larger StateMap proposal, total amount of grant \$299,974.
- Assessment of previous seismic hazard studies, Yucca Mountain, Nevada: Scoping report on applications of new technologies to reduce critical data gaps, Nevada Office of Nuclear Projects (~\$100,000).
- Trenching the causative faults of the 2019 Ridgecrest sequence, Collaborative proposal with ASU, submitted to Southern California Earthquake Center (\$41,000).
- Rapid proposal to date deposits and evaluate paleoearthquakes along the July 5, 2019 Ridgecrest earthquake rupture (\$2000 field support), submitted to NSF through Southern California Earthquake Center (SCEC).
- NEHRP, 2019, Paleoseismic trenching investigation of the Dog Valley fault (\$68,687).
- NEHRP, 2019, Fault trace mapping and paleoseismic investigation of earthquake history and recurrence along the Bonham Ranch fault zone, north of Reno, Nevada, 2019 (\$65,597).
- Earthquake Direct State Assistance Grant, 2019, Development of a Nevada specific post-earthquake technical clearinghouse web site and operations plan (\$45k).
- Nevada StateMap 2019, New geologic mapping in the Verdi quadrangle, part of larger StateMAP proposal award (\$54,800), Koehler 30% (\$25,971), total award \$157,631.
- 2018, NEHRP, Nevada Quaternary fault database: A new publically accessible web-based resource (\$58,490).
- StateMAP, 2018, New geologic mapping in Reno-Carson City urban area: Granite Peak 7.5' quadrangle (\$53,728) and Washoe City 7.5' quadrangle (\$53,795), part of larger NBMG, StateMAP proposal, Koehler 29%, awarded winter 2018.
- 2017, NEHRP, New lidar mapping and paleoseismic characterization of the Petersen Mountain fault zone, north of Reno, Nevada (\$62,683).
- 2017, NEHRP, Development of an earthquake chronology and recurrence data for the southern Warm Springs Valley fault – using high resolution lidar and trenching, Washoe County, Nevada (\$40,526)
- NEHRP, 2018 Working Group on Nevada Seismic Hazards, Awarded Sept. 2018 (\$22,452).
- Fault trenching research project, Barrick Goldstrike, awarded March 2017 (\$25,000)
- StateMAP, 2017, Granite Peak quadrangle, Koehler ~10%, submitted fall 2016 (\$299 k)
- Geologic hazards study, ASAP natural gas pipeline, Phases 4 and 5, 2014/2015 (\$170 k)
- Fault characterization and Geologic Hazards of the Yukon Crossing Area, 2014 (\$630 k)
- Technical review of fault crossings Donlin Gold Gas line, 2014 (\$25k)
- Geologic hazards study, ASAP natural gas pipeline, Phase 3, 2013 (\$400 k)
- Technical Review of Lake Clark fault zone for the Pebble Partnership, 2013 (\$15 k)
- Geologic hazards study along gas pipeline Livengood to Anchorage, Phase 2, 2012 (\$202 k)
- Technical Review of Susitna-Watana hydroelectric Project, Alaska, 2011 (\$30 k)
- Geologic hazards along gas pipeline and lidar, Phase 1, Anchorage to Livengood, 2011 (\$556 k)
- US Geological Survey, NEHRP grant, San Gregorio fault study, 2004 (\$80,000)
- US Geological Survey, NEHRP grant, San Andreas fault study, 2003 (\$44,000)
- California Department of Forestry and Fire Protection, Noyo River sediment study, 2002 (\$40,000)

- US Geological Survey, NEHRP grant, Pillar Point Marsh paleoseismic study, 2002 (\$40,000)

AWARDS

Top Student Presenter, Seismological Society of America, annual meeting, 2009
Outstanding Student Paper Award, American Geophysical Union, Geodesy Section, 2008.
Student poster competition winner, Geological Society of Nevada, 2007.
Jonathan O. Davis Scholarship, Desert Research Institute (DRI), 2006.
Geological Society of America (GSA), student research grant, 2005.
Outstanding student research award, Geological Society of America, Structural Geology and Tectonics Division, 2005.
Northern California Geological Society, student research grant, 1997 (\$500)

AFFILIATIONS AND REGISTRATION

California Professional Geologist, # 7615
Geological Society of America
American Geophysical Union
Seismological Society of America
Friends of the Pleistocene

STUDENT ADVISMENT

James McNeil – Ph.D. primary advisor, University of Nevada, Reno (expected 2024)
Coni De Masi – Ph.D. primary advisor, University of Nevada, Reno (expected 2022)
Kyle Smith - Ph.D. committee, University of Alaska, Fairbanks (2020)
Colin Chupik – M.S. thesis primary advisor, University of Nevada, Reno (2019)
Ian Pierce – Ph.D. thesis committee, University of Nevada, Reno (2019)
Tabor Reedy – M.S. thesis committee, University of Nevada, Reno (2018)
James Hengesh - Ph.D. thesis examiner, University of Western Australia (2018)
Dylan Carstens - undergraduate independent study (GEOL 495, Spring 2018)
Erin Warnock – undergraduate independent study (GEOL 495, Fall 2017)
Beau Whitney - Ph.D. thesis examiner, University of Western Australia (2015)
Rachel Frohman - M.S. thesis committee, University of Alaska, Fairbanks (2014)
Paul Sundberg - B.S thesis committee, Humboldt State University (2009)

APPOINTMENTS

Western States Seismic Policy Council (WSSPC), Chair, Basin and Range Committee (2016-2020)
Western States Seismic Policy Council (WSSPC), Nevada Representative (2015-date)
Nevada Earthquake Safety Council (NESC) participant (2015-2016, proxy for NBMG director 2017)
Member, Geotechnical Extreme Events Reconnaissance (GEER) (2015-date)
Member, Alaska Tsunami Mapping Team, National Tsunami Hazard Mitigation Program (2010-2015)
Western States Seismic Policy Council (WSSPC), Alaska representative (2013-2015)
Western States Seismic Policy Council Tsunami Hazards Mitigation Committee (2013-2016)
Alaska Seismic Hazards Safety Commission (2010-2015), Commission member and vice-chair.

ADDITIONAL COURSEWORK AND SERVICE

Organizing committee/session chair, Geological Society of America Cordilleran meeting May 12-14, 2021.
Organizing committee for the Basin and Range Earthquake Working Group annual meeting, Feb 9, 2021.
Nevada Bureau of Mines and Geology personnel review committee (2021-2022)
National Seismic Hazards Map reviewer, reviewed 600 NV faults for model inclusion (Oct. 2020)
Field coordinator, surface rupture team, M6.5 Monte Cristo Mountains earthquake (May 2020)

Participation in search for DGSE department chair position (Fall, 2019).
Participation in search committee for NBMG business manager position (Fall, 2019).
Led field trip for the Association of Engineering Geologists (AEG) (fall, 2019)
Participation in planning the 2020 AASG annual meeting including a field trip.
Participation in search for NBMG field oriented geologist position (Spring, 2019)
Participation in the NBMG booth for the Nevada Legislative Session, UNR day, wrote rack cards and white papers for the Geologic Hazards Division of NBMG (Spring, 2019)
Leader of Phase 2 GEER investigation of the Anchorage earthquake (4/26-5/1/2019).
Participation in the Idaho scenario earthquake virtual clearinghouse exercise, March 5, 6, and 7, 2019.
Collaboration with the WSSPC, Utah Geological Survey, Idaho Geological Survey, Montana Geological Survey, Idaho Emergency Management, Wyoming Geological Survey, EERI, USGS, and Utah Emergency Management.
Search Committee member, NBMG Economic Geology position (2019)
Basin and Range Province Earthquake Working Group (BRPEWG) member (2016-present)
Leader: INQUA IFG 1618F EGSHaz (Earthquake Geology and Seismic Hazards), Project 1619R: GEMAP (Geological Earthquake Mapping of recent, historical, and paleoseismic events: Quaternary Geology for Seismic Hazard Analyses) (2017-2018)
Effective Teaching Practices: cohort G, Spring 2018
Implicit Bias/Search Chair and Committee Training, UNR, Dec. 12, 2017
Workshop: Planning and writing successful grant proposals, UNR, Nov. 2, 2017
Chair of search committee, NBMG digital curator position, successful search, 2018
Undergraduate curriculum committee, UNR DGSE, fall 2017-2020
NEHRP proposal review panel member, Central and Eastern US panel, July 2017, U.S. Geological Survey, Menlo Park, CA
Field trip leader, NBMG Advisory Board Meeting, Rainbow Mountain earthquake rupture, August 24, 2016.
Scientific review committee and organization committee for the 7th International INQUA workshop on Paleoseismology, Active Tectonics, and Archaeoseismology conference (PATA days), May 30-June 3, 2016, Crestone, CO, USA
Search committee member, Nevada Bureau of Mines & Geology, tectonics position (2015-2016)
Alaska's Next Big Earthquake, workshop Nov. 12-13, 2015, Round table discussion chair.
Participation in candidate interviews for UNR Geology Dept. petrology position (fall, 2015)
Session convener (two sessions), Seismological Society of America annual meeting, Reno, NV (2016)
Field Trip co-leader, NBMG 1915 Pleasant Valley Earthquake Centennial field trip, (10/3/15)
Testimony in the Alaska Senate State Affairs Committee for HB 35 (3/24/15)
Invited testimony for House Bill 35 to establish Great Alaska Earthquake Remembrance Day (2/12/2015)
Editor for field trip guidebook for the 50th anniversary of the Mw9.2 Alaska earthquake, IGCP 588 (2014)
Program Committee member, Seismological Society of America annual meeting (2014)
Local organizing committee, 10th National Conference on earthquake Engineering, Anchorage, AK (2014)
USGS NEHRP, Pacific Northwest/Alaska external grants review panel (August 22-23, 2013)
Communicating with policy makers workshop, WSSPC, May 2, 2013
Emergency Management Institute, Introduction to Incident Command System ICS-100 (2011)
Wilderness First Aid, 8 hour course, Safety Ed 5/17/10
Global Earthquake Model, (GEM) Faulted Earth workshop participant (2009)
Geodetic and geologic datasets in the Northern Walker Lane, workshop participant, Reno, NV (2009)
Nevada Quaternary Faults Working Group participant, Reno, NV (2007)
Excellence In Teaching Program, University of Nevada, Reno (2005)
Bay Area Fault Working Group participant, at WLA, Walnut Creek, CA (2004)
Seismic Hazards Analysis Workshop participant, Association of Engineering Geologists (2003)

POST EARTHQUAKE INVESTIGATIONS

May 15 to 22, Field coordinator, surface rupture team, M6.5 Monte Cristo Mountains earthquake, Nevada. Collaboration with USGS and CGS.

July 4 to 9, 2019 and September 10-12, 2019, Rapid reconnaissance of the 4 July Mw6.4 and 5 July Mw7.1 Ridgecrest earthquakes, southern California. Collaboration with USGS, CGS, and GEER.

November 30, 2018, Co-team leader, Rapid reconnaissance of the 30 Nov. 2018, M7.0 Anchorage Alaska earthquake, Geotechnical Extreme Events Reconnaissance (GEER). Team leader phase 2 investigation 4/26-5/1/2019.

January 2010, NSF rapid response team: Documented geologic effects of the January 12, 2010 M7 earthquake on the Enriquillo fault, Port-au-Prince, Haiti, Supported by NSF.

February 2008, Immediate scientific response team to the M6 Wells Nevada earthquake, Supported by the Nevada Bureau of Mines and Geology, Utah Geological Survey, and U. Nevada.

June 2000, Reconnaissance investigation of surface rupture associated with the 1999 Chi-Chi, Taiwan earthquake along the Chelungpu fault, supported by Pacific Gas & Electric co. and NEHRP.

June 1992, Reconnaissance surveys of surface rupture associated with the 1992 M7.3 Landers, California earthquake, with University of California, Santa Cruz.

PUBLICATIONS

*Indicates student working under my advisement

Koehler, R.D., S. Dee, A. Elliott, A. Hatem, A. Pickering, I. Pierce, G. Seitz, 2021, Field response and surface rupture characteristics of the 2020 M6.5 Monte Cristo Mountains earthquake, central Walker Lane, Nevada: *Seismological Research Letters*, v. 92, 823-839.

*De Masi, C., **Koehler, R.D.**, Dee, S., Keen-Zebert, A., 2021, Early development of strike-slip faulting: Paleoseismic study along the Petersen Mountain fault, northern Walker Lane, Nevada, *Journal of Quaternary Science*, v. 36, no. 3, p. 403-414.

*Chupik, C., **Koehler, R.D.**, and Keen-Zebert, A., 2021, Quaternary mapping, and paleoseismic investigation of the Warm Springs Valley fault, northern Walker Lane, Nevada- northern California, *Bulletin of the Seismological Society of America* (accepted June 9, 2021).

Cabas, A., Beyzaei, C., Stuedlein, A., Franke, K.W., **Koehler, R.D.**, Zimmaro, P., Wood, C., Christie, S., Yang, Z., and Lorenzo-Velazquez, C., 2021, Geotechnical lessons learned from the M7.1 2018 Anchorage Alaska earthquake, *Earthquake Spectra*.

Kozaci, O., Hoirup, D.F., Zachariassen, J.A., Bloszies, C., Hiotchcock C.S., **Koehler, R.D.**, Lindvall, S.C., McDonald, E., Feigelson, Abramson-Ward, H., Hartleb, R., and Huebner, M., 2021, West shore Lake Oroville lineament geologic investigation, northern California, ASCE Lifelines conference special publication, UCLA Natural Hazards Risk and Resiliency Research Center (NHR3).

Hatem, A.E., Collett, C.M., Gold, R.D., Briggs, R.W., Angster, S.A., Field, E.H., Anderson, M., Ben-Horin, J.Y., Dawson, T., DeLong, S., DuRoss, C., Thompson Jobe, J., Kleber, E., Knudsen, K.L., **Koehler, R.**, Koning, D., Lifton, Z., Madin, I., Mauch, J., Morgan, M., Pearthree, P., Petersen, M., Pollitz, F., Scharer, K., Powers, P., Sherrod, B., Stickney, M., Wittke, S., and Zachariassen, J., 2021, Earthquake geology inputs for the National Seismic Hazard Model (NSHM) 2023, version 1.0: U.S. Geological Survey data release, <https://doi.org/10.5066/P918XCUU>.

- Reger, R.D., Hubbard, T.D., and **Koehler, R.D.**, 2021, Surficial geology and geohazards in the Alaska Highway Corridor, Alaska: Alaska Division of Geological & Geophysical Surveys, Professional Report 124, 149 p., 18 sheets, scale 1:63,360.
- Dee, S., **Koehler, R.D.**, Elliott, A.J., Hatem, A.E., Pickering, A.J., Pierce, I., Seitz, G.G., Collett, C.M., Dawson, T.E., De Masi, C., dePolo, C.M., Hartshorn, E.J., Madugo, C.M., Trexler, C.C., Verdugo, D.M., Wesnousky, S.G., and Zachariassen, J., 2021, Surface rupture map of the 2020 M6.5 Monte Cristo Range earthquake, Esmeralda and Mineral counties, Nevada: Nevada Bureau of Mines and Geology Map 190, 2 sheets, scale 1:14,000, 26 p.
- Faulds, J.E., **Koehler, R.D.**, and Henry, C.D., 2021, Preliminary geologic map of the south half of the Verdi quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 21-3, scale 1:24,000, 4 p.
- Duross, C., and 47 others, 2020, Ridgecrest displacement observations for use in constructing along-strike displacement distributions for the M6.4 and M7.1 ruptures, Bulletin of the Seismological Society of America, v. 110, no. 4, p. 1400-1418.
- Hammond, W.C., Blewitt, G., Kreemer, C., **Koehler, R.D.**, and Dee, S., 2020, Geodetic observation of seismic cycles before, during, and after the 2020 Monte Cristo Range earthquake using the MAGNET GPS network, Seismological Research Letters, v. 92, 647-662.
- Koehler, R.D.**, 2020, Assessment of potentially active faults in the northwestern Livengood quadrangle, Alaska, State of Alaska, Division of Geological & Geophysical Surveys, Report of Investigation, 2020-4, 35 p.
- Dawson, T., and 72 others (in review, April 2020), Field-based Observations of Surface Ruptures Associated with the 2019 Ridgecrest Earthquake Sequence, Bulletin of the Seismological Society of America.
- Cabas, A. Beyzaei, C., Franke, K., **Koehler, R.D.**, Pierce, I., Stuedlein, A., Yang, Z., and Christie, S., 2020, Turning Disaster into Knowledge: Geotechnical aspects of the 2018 Mw 7.1 Anchorage Alaska earthquake, Proceedings Geo-Congress 2020, February 25-28, 2020.
- Koehler, R.D.**, Reger, R.D., Spangler, E.R., and Hubbard, T.D., 2019, Assessment of geomorphology and geologic hazards in the Parks Highway-Minto Flats-Dalton Highway infrastructure corridor: Cook Inlet to Prudhoe Bay, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-8, 82 p., 4 sheets.
- Carlson, C.W., **Koehler, R.D.**, and Henry, C.D., 2019, Preliminary geologic map of the Washoe City quadrangle, Washoe County Nevada: Nevada Bureau of Mines and Geology Open-File Report 19-4, scale 1:24,000, 7 p.
- Pierce, I.*, Williams, A., **Koehler, R.D.**, and Chupik, C., 2020, High resolution structure-from-motion models and orthophotos of the southern sections of the 2019 Mw7.1 and Mw6.4 Ridgecrest, earthquakes surface ruptures, Seismological Research Letters, 91, 4, 2124-2126.
- Ponti, D.J., Blair, J.L., Rosa, C.M., Thomas, K., Pickering, A.J., Akciz, S., Angster, S., Avouac, J.P., Bachhuber, J., Bacon, S. et al., 2020, Documentation of surface fault rupture and ground deformation features produced by the Ridgecrest M6.4 and M7.1 earthquake sequence of July 4 and 5, 2019, Seismological Research Letters, XX, 2942-2959.
- Stewart, J.P. (Ed.), Brandenberg, S.J., Want, P., Chukwuebuka, C., Hudson, K., Mazzoni, S., Bozorgnia, Y., Goulet, C.A., Davis, C.A., Ahdi, S.K., Zareian, F., Fayaz, J., **Koehler, R.D.**, Pierce, I., Chupik, C., Williams, A., Akciz, S., Hudson, M.B., Kishida, T., Hudnut, K.W., Brooks, B., Gold, R., Ponti, D., Scharer, K., Hernandez, J., Patton, J., Olson, B., Dawson, T., Blake, K., Donnellan, A., Lyzenga, G., and Conway, E., 2019, Preliminary report on engineering and geological effects of the July 2019 Ridgecrest earthquake sequence, Version 1 and 2, Geotechnical Extreme Events Association (GEER), report number GEER-064.
- Koehler, R.D.**, Franke, K.W. (Eds.), Beyzaei, C.Z., Cabas, A., Christie, S., Dickenson, S., Pierce, I., Stuedlein, A., and Yang, Z., 2019, Geotechnical engineering reconnaissance of the 30 November 2018

- Mw7.1 Anchorage, Alaska earthquake, Version 2.0, Geotechnical Extreme Events Association (GEER), report number GEER-059b.
- Wong, I., Thomas, P., **Koehler, R.D.**, and Lewandowski, N., 2019, Assessing the seismic hazards in Jamaica incorporating geodetic and Quaternary fault data, *Bulletin of the Seismological Society of America*, Vol. 109, No. 2, pp. 716-731.
- Nicolosky, D.J., Suleimani, E.N., **Koehler, R.D.**, and Salisbury, J.B., 2019, Developing an approximate tsunami hazard zone for areas with poor topographic coverage in Alaska, *Pure and Applied Geophysics*, v. 176, pp. 3185-3205.
- Anderson, J.G., **Koehler, R.D.**, and 22 others, 2019, A seismic hazards overview of the urban regions of Nevada: Recent advancements and research directions, *Seismological Research Letters*, v. 90, no 4, pp. 1577-1583.
- Koehler, R.D.**, and Anderson, J.G., 2019, 2018 Working Group on Nevada Seismic Hazards – Summary and recommendations of the workshop, Nevada Bureau of Mines and Geology Open-File Report 19-2, 44 p.
- Suleimani, E.N., Salisbury, J.B., Nicolosky, D.J., and **Koehler, R.D.**, 2019, Regional tsunami hazard assessment for selected communities on Kodiak Island, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-6, 31 p., 7 sheets.
- Suleimani, E.N., Salisbury, J.B., Nicolosky, D.J., and **Koehler, R.D.**, 2019, Regional tsunami hazard assessment for the communities of Port Alexander, Craig, and Ketchikan, Southeast Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-7, 23 p., 5 sheets.
- Suleimani, E.N., Salisbury, J.B., Nicolosky, D.J., and **Koehler, R.D.**, 2019, Regional tsunami hazard assessment for False Pass and Perryville, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-3, 16 p., 2 sheets.
- Suleimani, E.N., Salisbury, J.B., Nicolosky, D.J., and **Koehler, R.D.**, 2019, Regional tsunami hazard assessment for Shemya, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-4, 13 p., 1 sheet.
- Suleimani, E.N., Salisbury, J.B., Nicolosky, D.J., and **Koehler, R.D.**, 2019, Regional tsunami hazard assessment for communities on the Kenai Peninsula, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-5, 20 p., 3 sheets, <http://doi.org/10.14509/30194>
- Franke, K., and **Koehler, R.D.** (Eds.), Beyzaei, C.Z., Cabas, A., Pierce, I., Stuedlein, A., and Yang, Z., 2018, Geotechnical engineering reconnaissance of the 30 November 2018 M7.0 Anchorage, Alaska earthquake, Version 1.0, Geotechnical Extreme Events Association (GEER), report number GEER-059, doi:10.18118/G6P07F
- Koehler, R.D.**, and Chupik, C.M., 2018, Subsurface trenching investigation in support of the Barrick Goldstrike N. Carlin Trend Structure Project, Nevada Bureau of Mines and Geology Open-File Report 18-2, 18 p.
- Koehler, R.D.**, 2019, Active faulting in the North Valleys region of Reno, Nevada: A distributed zone within the northern Walker Lane, *Geomorphology*, v. 326, p. 38-53.
- Koehler, R.D.**, and Carver, G.A., 2018, Active faults and Seismic Hazards in Alaska, Alaska Division of Geological & Geophysical Surveys, Miscellaneous Publication MP 160, 59 p.
- Witter, R.C., Briggs, R., Engelhart, S.E., Gelfenbaum, G., **Koehler, R.D.**, Nelson, A., LaSelle, S., Corbett, R., and Wallace, K., 2018, Evidence for frequent large tsunamis spanning locked and creeping parts of the Aleutian megathrust, *Geological Society of America Bulletin*, v. 131, no. 5/6, p. 707-729.
- Suleimani, E.N., Nicolosky, D.J., and **Koehler, R.D.**, Salisbury, J.B., 2018, Regional tsunami hazards assessment for Andreanof Islands, Alaska, Alaska Division of Geological & Geophysical Surveys, Report of Investigation 2017-2, 19 p., 2 sheets.
- Nicolosky, D.J., Suleimani, E.N., Freymueller, J.T., and Koehler, R.D., 2018, Potential maximum permanent flooding, Port Valdez, Alaska, in Nicolosky, D.J., Suleimani, E.N., Haeussler, P.J., Ryan, H.F., **Koehler,**

- R.D.**, Combellick, R.A., and Hansen, R.A., 2013, Tsunami inundation maps of Port Valdez, Alaska, Alaska Division of Geological & Geophysical Surveys, Report of Investigation 2013-1A, 77 p., 1 sheet.
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- Koehler, R.D.** and K.I. Kelson, 2002, Paleoseismic Assessment of the Northern Tijeras- Canoncito Fault System, Central New Mexico, Geological Society of America Abstracts with Programs, Rocky Mountain Section Meeting, Vol. 33, No. 4.
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- Koehler, R.D.**, 1999, Terrace Formation, Drainage Adjustment, And Tectonic Geomorphology Of The Van Duzen/North Fork Eel Rivers Headwater Region, Northern California [abs.]: Geological Society of America Abstracts with Programs, Cordilleran Section meeting, v. 31, p. 71.
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- Koehler, R.D.**, 1997, Quaternary history of the Van Duzen River headwaters along the northern portion of the Lake Mountain fault zone, northern California [abs.]: Geological Society of America Abstracts with Programs, Cordilleran Section meeting, v. 29, p. 42.
- Carver, G.A., Peterson, D.D., Garrison, C.E., and **Koehler, R.D.**, 1996, Paleotsunamic evidence of subduction earthquakes from northern California [abs.]: Geologic Society of America Abstracts with Programs, Annual Meeting Cordilleran Section, v. 28, p. 54.

SENIOR TECHNICAL REVIEW

- Nevada Office of Nuclear Projects. Technical review of paleoseismic studies related the proposed Yucca Mountain nuclear waste repository (2020).
- BGC Engineering, Inc. (BGC). Senior technical review of seismic hazard investigation of the Tailing Storage Facility for the Donlin Gold Project, Nova Gold and Barrack (2019).
- US Bureau of Reclamation. Field review of four paleoseismic trenches along the Gales Creek fault, Oregon (2018).
- Pacific Gas & Electric Co. (PG&E). Field review of potential fault lineaments in the vicinity of Scott Dam, California. With Rockwell Consulting (2018).
- California Department of Water Resources (DWR). Office review of fault lineament mapping north of Frenchman Reservoir. With Infra-Terra, Inc. (2018).
- Michael Baker International. Evaluation and review of FERC comments related to natural gas pipeline route pipeline, Alaska. Report # AK LNG RFI-465 Resource Report 06 (September, 2017).
- Pacific Gas & Electric Co. (PG&E). Review of seismic source model related to PG&E's hydro distribution system and earthquake hazards program (October, 2017).
- Lettis Consultants International, Inc. Review of probabilistic seismic hazards assessment source model for Jamaica LNG project (July, 2017).
- Golder & Associates. Provided senior technical review for seismic source characterization prepared for the Clear Air Force base north of Healy Alaska (2015).
- Susitna-Watana Hydroelectric Project, Crustal Seismic Source Evaluation, AEA11-022, for Alaska Energy Authority (Feb. 2015).
- Alaska LNG, FERC documents, Draft Resource report No. 1 (Project Description) and No. 6 (Geologic Resources), Docket No. PF14-21-000 (2015)
- Susitna-Watana Hydroelectric Project (FERC No. 14241) Initial Study Report, Geomorphology section, Geology and Soils section, and Site-specific seismic hazard study section (October, 2014).
- Copper River Basin Best Interest Finding report, for State of Alaska Division of Oil & Gas (July, 2014).
- Preliminary Geohazard Assessment for Potential Power Plant Sites Mount Spurr, Alaska, for Hattenburg Dilley & Linnell, LLC and ORMAT Nevada, Inc. (Feb 2014).

- West Susitna Access Reconnaissance Study, West Susitna Access to resource Development, Transportation Analysis Report, for the Alaska Department of Transportation and Public Facilities and Shannon & Wilson, Inc., Sisyphus Consulting (December 2013).
- Senior Seismic Hazard Analysis Committee (SSHAC) member, Arizona Public Service's (APS) workshop #2 for the Palo Verde Nuclear Generating Station Sept 24 & 25, 2013.
- Susitna-Watana hydroelectric project, NTP 16, technical Memorandum No. 13, v0.0 (2013), for Alaska Energy Authority, Fugro Consultants, Inc, and MWH Americas.
- Susitna-Watana hydroelectric project, NTP 11 Seismic Studies, Technical Memorandum No. 8, v0, Lineament Mapping and Analyses for the Susitna-Watana Dam site Area (2012) and field review of fault lineament mapping (2013).
- Alaska Energy Authority, alternative energy grants, 30-40 grants per year (2010-2014).
- Point Thompson Project Final Environmental Impact Statement related to draft permit application from Exxon Mobil Corporation to develop a pipeline to the Point Thompson oil field (2012).
- Environmental Protection Agency report "An assessment of potential mining impacts on salmon ecosystems of Bristol Bay, Alaska, Volume 1. Performed for State of Alaska Office of Project Management and Permitting (2012).
- Pebble Partnership, LLC's seismic study related to the Pebble mine, Environmental Baseline Document, and assessment of data (lidar, orthophotographs) pertinent to the western extent of the Lake Clark fault (2012).
- Alaska Pipeline Project, Draft Resource report 6-Rev0, Geologic Resources, FERC Docket No. PF09-11-000, USAG-UR-SGREG-000009, Prepared by TransCanada and Exxon Mobil (2011).
- Donlin Gold Project, Natural Gas Pipeline, Plan of Development (2011).
- Shell oil's Chukchi Sea Exploration Plan for the Bureau of Ocean and Energy Management BOEM and Alaska DNR (2011).
- Lake and Peninsula Borough, Alaska, coastal management program (2011).
- Seismic hazards characterization (PSHA) for the Susitna-Watana Hydroelectric dam project southcentral Alaska including technical advisement to Fugro Consultants, Inc. (2011).
- Seismic hazards issues related to proposed natural gas storage facility in Kenai, Alaska, DNR, DGGS (2010)
- Seismic hazards issues related to proposed Hydroelectric power facilities in Alaska, 35 proposals in all regions of the state, DNR, DGGS (2009-2011)
- Field review of paleoseismic trenches excavated by TransCanada Alaska Company, LLC, Foothills Pipe Lines (North B.C.) Ltd., and Foothills Pipe Lines (South Yukon) Ltd. Trenches located along the Bear Creek lineament and Dot "T" Johnson faults within proposed natural gas pipeline corridor, DNR, DGGS (2010).
- Field review of paleoseismic trench excavated across a suspected tectonic lineament near Lake Iliamna, southwest Alaska in the vicinity of the proposed Pebble Mine project. Represented State of Alaska mining, land, and water, large projects permitting department (2010).
- Preliminary fault investigation for residential housing development along the Mount Rose fault, Reno, NV. Client: Marvin Davis & Associates (2008).
- Assisted with the technical review of the Baja LNG terminal seismic hazards report. Evaluated paleoseismic techniques used to evaluate fault activity. AT WLA, Client: Shell Global Solutions (2004).
- Technical review of multiple Environmental Impact Reports (Geology, Soils, and Seismicity sections) prepared for housing sub-divisions in Pittsburg, Ca. At WLA, Client: Adams, Broadwell, Joseph, & Cardozo Attorneys at Law (2002).
- Technical review of field drilling and grading operations for the City of Vallejo, at the Sky Valley housing development. Confirmed the existence of landslide planes and approved keyway depths for landslide hazard mitigation. At WLA, Client: City of Vallejo (2001-2002).

SELECTED GEOLOGIC, SEISMIC, AND FAULT HAZARD INVESTIGATIONS

- California Department of Water Resources. Oroville Dam Spillway Repair (LCI-8) project. Geologic mapping of rock and soil exposures, geotechnical data collection within construction excavations, and paleoseismic trenching. Collaborative work with Infra-Terra, Inc., and Lettis Consultants International (2017).
- Alyeska Pipeline Services Corporation. Provided geological services including advising, field reconnaissance, peer review, and oversight for geotechnical and geohazard assessments for Alyeska's aboveground Integrity Management Program associated with the Trans-Alaska Pipeline System (TAPS) (2014-2015).
- Worley Parsons, ExxonMobil Alaska LNG LCC and Partners – AK LNG Project. The AK LNG Project is a FERC Section 3 LNG export facility that includes project segments for treatment, delivery, and transportation of natural gas from the Alaska North Slope along an 800 mile route to the LNG plant and marine terminal. Duties include field evaluation of active faults and disseminating results of the field program to project engineers. Collaborative work between Koehler Geohazards, LLC, PaleoEarthquake International, LLC., and Carver Geologic LLC (2013-2016).
- Fault crossing evaluation for the Donlin Gold natural gas pipeline. Focus on the western Denali fault. With Michael Baker, Inc and Interface Geohazard consulting, LLC. (2014).
- Seismic hazards assessment along the Trans Alaska Pipeline System (TAPS) at the Salcha River seismic zone. With Carver Geologic, LLC and Alyeska Pipeline Services Company (2013).
- Alaska Gasline Development Corporation - Alaska Stand Alone Pipeline and Bullet Line natural gas pipeline projects. Fault crossing and geologic hazard assessment, Anchorage to Prudhoe Bay, Alaska. Coordinated project from conception, lidar and data review, helicopter field reconnaissance. Collaborative work between DGGs and Alaska Gasline Development Corp. (2011-2015).
- TransCanada/Exxon Mobil – Alaska Pipeline Project (APP). Seismic hazards studies along natural gas pipeline corridor, Prudoe Bay to the Canadian border, geologic mapping and paleoseismic trenching along active faults, verification and delineation of geologic hazards at fault crossings, Collaborative work with DGGs, TransCanada Alaska company LLC (TC Alaska) and ExxonMobil Alaska (2009-11).
- Seismotectonics of Liberia, West Africa, contribution to probabilistic seismic hazard assessment (PSHA) for rail transport route for the Rio Tinto Simandou Iron Ore Project, Liberia (2009) Subconsultant to Lahontan GeoSciences and Scott Wilson Associates.
- Geologic hazard evaluation for hydroelectric canals associated with PG&E's Manton system near Redding, CA including the Armstrong, Al Smith, Keswick, Lake Grace, Shingle Creek, Baldwin, Mill Seat Bypass, Digger feeder, Cross Country, Eagle Canyon, Coleman, Instep, South Battle and Loomis Mills canals. Client: PG&E. Work in conjunction with Piedmont Geosciences. (2008).
- Seismotectonics of Guinea, Developed seismotectonic model for probabilistic seismic hazard assessment (PSHA) for rail transport route and port facility associated with the Rio Tinto Simandou Iron Ore Project, Guinea, West Africa. (2008). Subconsultant to Lahontan GeoSciences and Scott Wilson Associates.
- Fault investigation including setback recommendations for proposed remodel of the Barber Residence, 3372 Nambe Dr., Arrow Creek subdivision, Reno, NV. (2008) Client: Wood Rodgers & Associates.
- Fault investigation of 180 acre parcel near Lemmon Drive/Highway 395, Reno, NV for proposed Walmart development. Client: Wood Rodgers Consultants, Inc. (2008).
- Geologic hazard evaluation for hydroelectric canals in the vicinity of Auburn, CA including Drum, Chalk Bluff, Upper Wise, Lower Wise, Fiddler Green, and South canals. Client: PG&E. Work in conjunction with Piedmont Geosciences. (2007-2008).
- Fault investigation for Spring Creek development, Elko, Nevada. Client: Wood Rodgers Consultants, Inc. (2006)

- Fault trenching investigation for the Baku-Tbilisi-Ceyhan (BTC) crude oil pipeline project, Turkey. Investigation conducted to verify fault locations, width of zone of deformation, style of deformation, earthquake magnitude, and amount and direction of displacement, and to provide fault crossing design validation. Faults evaluated included North Anatolian fault, Ezurum East fault, Ezurum West fault, and Deliler fault. At WLA, client: Botas (2004).
- Office-based analyses for the Congo River natural gas pipeline crossing project, Angola including literature search and review, bathimetric interpretation of canyon landforms, and longitudinal profiles. At WLA, client: Shell Global Solutions (2004).
- Geologic hazards assessment in support of an Environmental Impact Report for the Lawson's Landing development, Dillon Beach, Marin County, CA. At WLA, client: EDAW, Inc. (2003).
- Fault rupture hazard investigation for the proposed Telacu senior housing project along the San Jacinto fault in San Bernadino, California. At WLA, client: Geotechnologies, Inc. (2003).
- Geologic, seismic, and geotechnical studies for Entergy Potomac's Grand Gulf nuclear power plant expansion, Mississippi. Performed detailed geologic mapping within the 1-km, 5-mile, and 25-mile radius study areas. Compiled a seismic source model for the Central United States to update Electric Power Research Institute (EPRI) seismic source and ground motion models to be used in early site permitting. At WLA (2002-2003).
- Fault location assessment for the proposed development of the Portola Valley Town Center Project (PVTCP), Portola Valley, California. The assessment included exploratory trenching (10 trenches) to investigate the location and geometry of the Woodside trace of the San Andreas fault, 14 borings with continuous core sampling, and surveying. At WLA (2001, 2002, and 2003).
- Surface fault rupture hazard study for the Sandy Creek detention basin along the Antioch fault, Antioch, California. At WLA (2002)
- Liquefaction hazard assessment for the El Portal school, San Pablo, California. Study included logging of 4 boreholes. At WLA (2002).
- Rock fracture and fault location study for the Altamont Landfill, Livermore, California. Study assessed fault control of groundwater flow. At WLA, client: Waste Management (2002)
- Seismic hazard evaluation for the Haifa LPG facility, Haifa, Isreal. Work included air photo mapping of fault lineaments and fault strip map compilation. At WLA (2002).
- Fault rupture hazard investigation for the General Mills Yoplait Colombo plant involving trenching the Avalon-Compton segment of the Newport-Inglewood fault. At WLA (2002).
- Geologic and geotechnical hazard evaluation of the Ralston Penstock, a component of Placer County Water Agency's Middle Fork Project. This project consisted of a field reconnaissance of the penstock, and preparation of a rock fall hazard strip map along the penstock alignment. At WLA (2001).
- Fault rupture hazard investigation for the proposed new development at the Eden Church, Hayward, California. Trenches were documented for the presence or absence of active faults capable of producing surface rupture. At WLA (2001).
- Fault rupture hazard investigation for the new pro shop and locker room expansion for the Mira Vista Country Club, El Cerritto, California. Trenches were documented for the presence or absence of active faults capable of producing surface rupture. At WLA (2001).
- Fault rupture hazard investigation for a proposed development at 10025 Foothill Road, Sunol, California. Aerial Photography interpretation and field reconnaissance were used to construct a Quaternary geology site map. Exploratory trenching was used to document the absence of active fault traces in the vicinity of the building footprint. At WLA (2000).
- Fault rupture hazard investigation for the new Alameda County Sheriffs facility, San Leandro, California. Trenches were documented for the presence or absence of active faults capable of producing surface rupture. At WLA (2000-2002).
- Site Geotechnical Characterization (SGC) for the PG&E Diablo Canyon Nuclear Power Plant, San Luis Obispo, California. This work included geologic mapping, trenching, rock fracture analysis,

continuous core drilling, downhole geophysical data acquisition, and report preparation. This information will be used to assess the feasibility of licensing and constructing an interim dry cask storage facility for spent fuel rod assemblies. At WLA (2000-2001).

- Fault rupture hazard investigation for the Juvenile Hall facility, San Leandro, California. Seventeen exploratory trenches were documented for the presence or absence of active faults capable of producing surface rupture. At WLA (2000).
- Geotechnical investigation including drilling, test pit description, and construction monitoring for the Turtle Bay Pedestrian Bridge, Redding, California. At WLA (2000).
- Geotechnical investigation including trenching and drilling to identify the margin of the Blakemont landslide at the proposed development on 7952 Terrace Drive, El Cerritto, California. At WLA (2001).
- Seismic source study for the California Department of Water Resources. This study evaluated the earthquake hazard for potential dam sites in the northern Sacramento Valley, California. At WLA (1999).