DR. DANIEL M. HORNS

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EDUCATION

Doctor of Philosophy: Geology, University of California at Davis, 1992 Dissertation: Paleomagnetic and Structural Analyses of the San Gregorio Fault Zone, California.

Graduate Work: Geophysics, University of California at Berkeley, 1985-1986

Bachelor of Science: Applied Geophysics, University of California at Los Angeles, 1985

EMPLOYMENT HISTORY

Dean, College of Science, Utah Valley University (UVU), May 2020 – present (Interim Dean August 2019-May 2020)

Oversee administration of the College of Science and serve as a member of the university's Academic Affairs Committee. Activities include development and execution of academic and administrative initiatives; strategic planning for continual improvement of the college, including program assessment and improvement; promotion of faculty development; oversight of faculty hiring, tenure, and promotion; resolving employee conduct issues; coordinating the college's annual resource allocation request; cultivating community relationships through outreach events and interactions with donors and representatives of industry.

Associate Dean, College of Science, Utah Valley University (UVU), 2010 – May 2020

Assist with administration of the College of Science, including development of academic and administrative goals; management of the student research fund, strategic planning for continual improvement of the college; oversight of construction and remodeling, student recruitment; community outreach; and cultivation of relationships with donors and representatives of industry.

Chair, Department of Earth Science, UVU, 2001-2010

Founding Chair of the department. Oversaw curriculum, including development of four new degree programs and several new courses; scheduled courses and teachers; developed and implemented program assessment activities; created and implemented faculty professional development program; recruited students; coordinated hiring new staff and faculty; prepared documents for accreditation, and conducted community outreach.

Professor, Department of Earth Science, UVU, 1997 - present

Taught courses in general geology, geologic hazards, environmental geology, oceanography, and survey of physical science. Courses included a distance-learning course that was broadcast live to sites throughout Utah, a "learning community" geology course combined with an art history course, and courses for the Honors program. Developed several field trips to investigate the geology throughout parts of Utah, California, and Hawaii. Supervised student research projects and theses.

Visiting Professor, Semester at Sea, summer 2009

Taught geology and oceanography courses on a ship-based university program. Developed and led field trips to explore the geology and oceanography in Spain, Italy, Croatia, and Turkey.

Project Geologist, Kleinfelder Engineering, part-time 1992-94, full-time 1994-97, part-time 1997-07

Provided geologic expertise and project management for a variety of engineering- and environmental-related jobs in Utah, California, Nevada, and Idaho. Assessed earthquake and landslide hazards pertinent to development of homes, businesses, government buildings, and water and gas transmission pipelines. Developed and managed project budgets and schedules. Participated in business development and marketing.

Adjunct Professor, Utah Valley State College, 1993-1994 (part-time) Taught courses in geology, survey of physical science.

ACCOMPLISHMENTS IN EDCUATIONAL ADMINISTRATIVE LEADERSHIP

Following are selected examples of accomplishments in educational administrative leadership from my 22+ years at Utah Valley University.

Developed and Grew a New Academic Department

Appointed as founding chair of the Department of Earth Science when the department was first created in 2001. Remained chair until 2010. As chair, accomplished the following:

- Worked with the faculty to create and update the department's vision, mission, and goals.
- Helped grow the department from three faculty members in 2001 to eleven members in 2011.
- Designed four new degree programs and had them approved (see below).
- Designed and implemented the department assessment programs (see below).
- Worked with faculty to improve teaching and student mentoring, including design and implementation of a faculty peer evaluation program.
- Prepared materials for accreditation.
- Recruited regional and national earth science professionals to evaluate the department and its programs.
- o Designed and implemented the department's outreach and recruitment activities.
- Initiated the department's seminar series.

Developed Curricula

Designed four new degree programs, ushered all four programs through the UVU curriculum process, and ushered the two bachelor's degree programs through the USBOR R401 curriculum approval process:

Adjunct Professor, California State University at Sacramento, 1992 (one semester) Taught a physical geology laboratory course.

- *Bachelor of Science in Earth Science* (later changed to Bachelor of Science in Geology) (2005). This was the first bachelor's degree in a physical science at UVU.
- Bachelor of Science in Earth Science Education (2006).
- *Minor in Earth Science* (2004).
- o Emphasis in Earth Science for the Integrated Studies degree program (2004).

Planned and Assessed Academic Programs

Involved with planning and assessment at the department level and the college level. Following is a selected list of accomplishments.

- Strategic Plan: Wrote and updated the strategic plan for the College of Science (2016, 2018, 2019)
- *Division goals*: Wrote the goals for the College of Science (2018).
- Accreditation Preparation:
 - Coordinated the College of Science preparation for an accreditation review by the Northwest Commission on Colleges and Universities (2017).
 - Wrote the 43-page Department of Earth Science Unit Self Study and coordinated other departmental preparation for an accreditation review by the Northwest Commission on Colleges and Universities (2010).
- *Degree program outcomes assessment*: Created the outcomes assessment programs for the Earth Science and Earth Science Education degree programs. Ran those assessment programs and wrote assessment reports from 2005 to 2010.
- *Curriculum mapping*: Defined intended knowledge, skills, and abilities (KSA's) for the Earth Science and Earth Science Education degree programs and mapped those KSA's onto the curricula for those degree programs. Ensured that all the desired KSA's were introduced in at least one class, and that each class in the curriculum played a role in developing the desired KSA's.
- *Mission statements*: Wrote the original mission statement for the Department of Earth Science (2001); twice re-wrote the mission statement for the College of Science (2015, 2018).

Promoted Effective Teaching

- As Department Chair:
 - Initiated a peer-mentoring pedagogical training program.
 - Wrote tenure and promotion policies that emphasized teaching and that gave credit for participation in pedagogical training programs.
 - Developed a procedure for faculty candidate interviews requiring candidates to teach full class sessions of actual UVU courses.
- As Associate DeanDean:
 - Advanced teaching excellence in the College of Science by promoting pedagogical training programs.
 - Encouraged inclusion of teaching-related criteria in departmental RTP documents.

- Encouraged faculty search committees to carefully assess teaching potential and to hold teaching skill as the top priority when ranking faculty candidates.
- Served on the Global/Intercultural (G/I) Initiative oversight committee, which seeks to increase the quality of global and intercultural teaching across campus.
- Served on the Honors Program Oversight Committee, helping to provide educational opportunities for students interested in pursuing the Honors graduation distinction.

Served on Campus-wide Committees

Long history of collaboration with professionals from across the UVU campus to jointly pursue the goal of educational excellence. Following are selected examples.

- Environmental Ethics Symposium organizing committee co-chair (2015-2019)
- UVU committee to plan the 2019 United Nations DPI/NGO conference, committee member (2018-2019)
- o Global Academic Advisory Board (2008-present)
- Global/Intercultural Initiative Oversight Committee (2014-2019)
- o Grants for Engaged Learning Grants Review Committee (2011-2019)
- Honors Program Oversight Committee (2016 2019)
- o Institutional Effectiveness Committee/Academic Excellence Committee (2010-2018)
- Campus-wide STEM Coordinating Committee (2013-2018)
- Summer Transitions Advisory Committee (2012-2018)
- University Image Committee (2011-2018)
- UVU Sustainability Committee (2010-2016)
- Capitol Reef Field Station Advisory Board (2010-2015)
- UV Self leadership training fellow (2012-2013 cohort)
- Advisement Leadership Council (2009-2012)
- Women's Success Center Coordinating Council (2010-2013)
- Completed the process to make UVU a member of the Colorado Plateau section of the Cooperative Ecosystems Study Unit (2012)
- Advisement Leadership Council (2009-2012)
- Institute for Professional Engagement committee member (approx. 2007-2009)

Provided Leadership in Hiring

- O University-wide executive/staff hiring:
 - Chaired two executive-level search committees:
 - Dean of the Woodbury School of Business (2022)
 - Senior Director for International and Multicultural Studies (2013)
 - o Served on two executive-level search committees

- Assistant Vice President for Recruitment (2014)
- Associate Vice President for Academic Programs (2012)
- o Served on three search committees for university-wide staff positions
 - Director of Undergraduate Research (2018)
 - Program Director for Engaged Curriculum (2017)
 - Latino Initiative Program Coordinator (2022)
- Department faculty hiring: Chaired eight faculty search committees for the department of Earth Science. This included writing job descriptions, advertising the positions, organizing search committees, defining candidate ranking criteria and rating procedures, defining interview formats, writing interview questions, and running interviews. Acted as committee member on an additional two faculty hiring committees.
- *Faculty hiring best practices guidelines* wrote best-practices guidelines for hiring faculty in the College of Science to promote continuous faculty improvement.

Recruited Diverse Students through Extensive Outreach

- *Community STEM outreach*: In collaboration with colleagues, organize and staff booths featuring hands-on science-learning activities for STEM promotion at community events (two to four events per year). These include local events (e.g., Provo Science Palooza), regional events (e.g., Craft Lake City DIY festival), and state-wide events (e.g., Utah STEM Fest).
- Grade school STEM outreach: In collaboration with colleagues organize and staff booths featuring hands-on science-learning activities for STEM promotion events at grade schools. Includes three to six events per year, many at schools that serve populations that are underrepresented in sciences (e.g., Title I schools, schools on the Navajo Nation).
- *High School outreach*: In collaboration with colleagues, organize and staff College of Science informational booths at events aimed at recruiting high school students to UVU. These include UVU open houses held at locations along the Wasatch Front and the annual Sterling Scholar Banquet held at UVU (two to four events per year).
- *Transfer college outreach*: Organize and staff College of Science informational booths at events aimed at recruiting students from two-year colleges to UVU. These include events at Salt Lake Community College and Snow College (one to two events per year).
- *College of Science Annual Newsletter*: Edited *The Synapse*, the annual newsletter for the College of Science, since 2012 (co-edited starting in 2017). The Synapse includes stories about accomplishments in each of the six College of Science departments.
- Utah PREP: Served as PI on a 2.5-year (2016-2019) NSF-funded effort to create and enhance a series of 7-week summertime STEM workshops ("PREP" programs) for middle-school students. UVU has run a PREP program for 4 years. The \$350,000 grant provides funds to assess the success of the UVU PREP and to create resources to turn PREP into a state-wide program ("Utah PREP")
- *Utah Conference on Undergraduate Research* (2016): Served on the committee that planned and ran the conference. My contribution focused on recruiting and coordinating student volunteers and on securing space resources for the conference.

- *Science Kids Camp*: Designed and organized the first-ever, week-long UVU Science Kids Camp, which was offered through Community Education (2013).
- College of Science Open House: Devised, designed, and ran College of Science Open Houses 2012 2016. The open houses brought 250 to 400 high school students to campus to attend workshops by each of the six departments in COS. The organizational format for this open house was adopted by Prospective Student Services to be used during the 2013/2014 UVYou Days.
- *College of Science brochure* Worked with University Marketing to design and write a brochure that has pull-out informational sheets for each of the six College of Science departments (2011 2018).

Promoted Inclusion and Student Success

- Latino Scientists of Tomorrow (2012 present): Created and continue to co-manage (with the UVU Latino Initiative) the Latino Scientists of Tomorrow (LST) summer bridge program (following the format of the Latino Educators of Tomorrow). LST offers two UVU science courses, college prep activities, and career exploration activities, to selected Latino high school students. The program has run for six years, with an average enrollment of 24 students per year.
- *UVU Inclusivity Advisory Board* (2014-2020): Participate as a member of the board that develops and implements UVU's inclusion plan.
- *Expanding Your Horizons and Empowering Your Tomorrows conferences (2004 2019):* Serve on event organizing committees, plan and staff information tables for the Department of Earth Science and College of Science at these annual conferences for grade-school girls and boys.
- Utah Governor's Native American Summit (2014 present): Served on the committee to plan and run educational events for school-age Native American youths who attend the annual summit at UVU.
- *UVU First Generation Initiative* (2016-present): Work with the First-Gen initiative to offer "learning lunches" and COS tours for first-generation college students.
- *SheTech Explorer Day* (2014-2017): Co-Chaired SheTech Explorer Day, an annual, all-day event for high-school girls to explore STEM careers.
- *Women in STEM Brown Bag series* (2014-2016): Co-Chaired series of lunchtime and evening social events for female STEM students to network and to hear about keys to success from peers and from mentors who are female STEM professionals.
- *Tri-Ute Conference*: Served on the organizing committee for the 2013 Tri-Ute Conference, which brought 120 youths from the three Ute tribes to UVU for educational and motivational activities.
- *Health Scholars Mentoring Day*: Worked with Mountainland Technical College to design and run the first-ever Health Scholars Mentoring Day, which brought several dozen high school students to UVU to learn about health careers (2013).

Facilitated and Promoted Student and Faculty Research

- College of Science Scholarly Activities Committee (SAC) committee chair: SAC funds facultymentored student research within the College of Science. As chair of the SAC, I work with a committee to establish criteria for what SAC will fund, created SAC funding proposal forms, establish proposal timelines, establish proposal ranking criteria, and ranked proposals. Along with administrative assistants I track SAC budgets (2011- 2019).
- *Office of Engaged Learning:* Served on committees to develop and run programs that fund scholarly and creative works and pedagogical development (2011 2019).
- o Utah Conference on Undergraduate Research organizing committee (2017).
- *Scholarly and Creative Undergraduate Leadership Partnership Team* (SCULPT) committee member (2016-present).

Fostered Community Relations

- Public science presentations: Skype a Scientist presentations to K-12 schools (2020-2021), Provo Library science series (2018), Orem Library science series (2018), Timpanogos Gem and Mineral Society monthly meeting (2018), UVU Science for Breakfast (2012), Cottonwood Canyons Foundation (2010-2012), Park City Sunrise Rotary Club (2006), Salt Lake Rotary Club (2006).
- *Thanksgiving Point collaboration* (2020): Arranged a meeting of UVU faculty and staff with Axel Estable, Director of Learning and Engagement at Thanksgiving Point to discuss possible research and educational projects involving a wetland area owned by Thanksgiving Point.
- *doTERRA collaboration* (2019): Worked with Dr. Russ Osguthorpe, doTERRA Chief Medical Officer to explore possible research collaborations between doTERRA and UVU College of Science. Introduced Dr. Osguthorpe to several members of the College of Science faculty. Promoted process by which faculty may submit research funding proposals to Dr. Osguthorpe.
- Nu Skin collaboration (2019): Arranged a meeting of representations of the UVU College of Science, UVU Department of Chemistry, and Nu Skin at the request of Helen Knaggs, Nu Skin V.P. of Global Research and Development. The focus of the meeting was development of a program at UVU to train students in formulation science. Nu Skin and many other local nutraceutical businesses need employees with formulation skills. The Department of Chemistry is developing a formulation science program to meet this need.
- o Loveland Living Planet Aquarium Education Advisory Board member (2015-2018).
- School district collaborations (2013-present): Worked on various collaborative projects with the Alpine, Nebo, and Provo school districts to improve preparation of students for success in college science majors. Included presentations on college-readiness to representatives of the Alpine and Provo districts, a tour of science research labs for Provo District elementary teachers, and collaboration on the UVU PREP summer STEM program with representatives of the Alpine, Nebo, and Provo districts.
- *Alternative Spring Break Grand Canyon service project leader* (2018): Led a group of UVU students on an environmentally oriented service project that was arranged by the UVU Center for Social Impact.
- o Geoscientists Without Borders presenter at annual meeting (2016).

- Snow College Division of Natural Science and Mathematics program review team member (2015).
- o Weber State University Geosciences Department program review team member (2013).
- o UCCU Family Festival planning team member (2012, 2013).
- *Elderhostel (Road Scholar)* (2000-2001): Led educational workshops for participants in several Elderhostel (now Road Scholar) programs. Workshop topics included the geology of ski resorts, the geology of golf courses, the origins of mountains, and earthquake hazards. Some of the ski resort workshops included on snow geologic tours of ski resorts (2002-2010).
- *Project Impact*: Member of the FEMA-funded Project Impact landslide committee, tasked with reducing landslide hazards in Salt Lake City.

Cultivated Donor Relations

As department chair and associate dean, worked with UVU Donor Relations to foster relationships with the following donors:

- Chris Peper (donated mineral specimens)
- Anne Peper (endowed a scholarship and donated a world-class mineral collection).
- o Lilian Hayes (endowed a scholarship).
- Dennis McMurdie (donated hundreds of books, maps, and journals).
- Dozens of regional professional earth scientists, who collectively donated approximately half of the UVU Fulton Library geology book collection.

Oversaw Building Construction and Occupancy

 Acted as liaison between the College of Science & Health (now College of Science), UVU Facilities, and the contractor during the final 18 months of construction of the UVU Science Building. Helped to ensure that the building was constructed according to plans and to wishes of CSH. Gathered information from CSH faculty and staff to help the contractor with final design issues. Worked with UVU Campus Scheduling to determine which rooms in the building were appropriate for general class scheduling and which were appropriate for department-specific use. Coordinated plans to distribute department-specific space within the building among CSH departments.

TEACHING ACTIVITIES

Extensive Teaching Experience

- More than 20 years teaching
- Over 80 individual sections of ten different courses

Multi-Format Teaching Experience

• *Lecture*: Taught several dozen sections of "lecture" classes, utilizing student-centered, engaged-learning pedagogies.

- o Lab: Taught ~20 sections of laboratory-based classes.
- *Distance Ed*: Taught ~ten course sections that were delivered to distant sites via live-interactive television.
- *Field*: Taught around 20 sections of field-based classes, including general-interest classes and upper-division geology classes. These courses explored parts of Utah, Idaho, Wyoming, Montana, Nevada, California, and Hawaii.
- *International*: Developed geology and oceanography classes for teaching assignment with Semester at Sea, a ship-based university program. Included class meetings on the ship as it traveled across the Atlantic and through the Mediterranean, and field-based learning activities in Spain, Italy, Croatia, and Turkey.

Interdisciplinary Teaching Experience

- *Combined geology/biology class*: Developed and taught short (4-day to 2-week) field-based course that explored elements of geology and biology in areas throughout the western U.S., in collaboration with a biologist (every year since 2004)
- *Combined geology/history/art history class*: Developed and taught a course that explores the eruption of Mt. Vesuvius in AD 79 and the impact of that eruption in preserving elements of Roman art and culture (taught as a UVU Honors course, Spring 2019).
- *Combined geology/art history class*: Developed and taught this full-semester course that combined *Introduction to Geology* with *History of Art to the Renaissance*, in collaboration with an art historian (2014, 2015)

Pedagogical Training

- Participated in workshops from the UVU Office of Teaching and Learning (1997 present)
- Participated in workshop on securing funding for research from the Council on Undergraduate Research (2015)
- Participated in workshop on incorporating research into teaching from the Council on Undergraduate Research (2014)
- Participated in workshop on promoting success among diverse groups of students from the Association of American Colleges & Universities (2013)
- Participated in workshop on student-centered teaching from the National Association of Geoscience Teachers (1997)

PROFESSIONAL SOCIETIES AND BOARDS

- *Geological Society of America (GSA)*: Member 2018-present, General Chair of the May 2020 meeting of the Rocky Mountain Section of the GSA.
- o *iUTAH management team* (2013-2015)
- o Utah Professional Geologists Licensing Board (2011-2014; Board Chair, 2013/2014)

- Association of Environmental and Engineering Geologists: Member (1994-present, Intermountain Section Program Chair, 2003-2004, Intermountain Section President 2005 – 2007, Annual Meeting Co-Chair, 2012)
- Utah Geological Association: Member (1992-present), President (1997), Program Coordinator (1994, 2013)
- o Utah Quaternary Fault Parameters Working Group, invited presenter (2008 2012)
- National Association of Geoscience Teachers (1998-2011)
- Utah Council of Professional Geologists (2001-2005)
- Utah State Geologic Mapping Board: Member (1997)

AWARDS AND RECOGNITIONS

- o UVU Global Engagement Atlas Award for supporting global education (2021)
- UVU Presidential Award of Excellence for Inclusion (2013/2014)
- UVSC (UVU) School of Science and Health (now College of Science) Teacher of the Year (2000/2001).
- o UVSC (UVU) Alumni Association Teacher of the Year (1998/1999).

GRANTS

- *National Science Foundation*, \$350,000 award for Utah PREP (2016-2019) Principal Investigator on grant which helps to fund expansion and assessment of Utah PREP, a multi-institutional science education and outreach project. Collaborated with the School of Education and SCUP to write the successful grant application.
- National Earthquake Hazards Reduction Program (NEHRP) (2016) with co-PI Nathan Toké, Characterizing the timing of ruptures crossing the boundary between the Provo and Salt Lake City segments of the Wasatch Fault: \$31,366.
- UVU College of Science Scholarly Activities Committee, \$2,495 for WAVES Java (2016) Principal Investigator on this tsunami research project in Java, Indonesia.

PROFESSIONAL PRESENTATIONS

Bunds, M.P., Uribe, A.T., Harris, R.A., Berrett, B., **Horns, D.M.**, Prasetyadi, C., and Andreini, J., 2019, Three Years of UAS-Based High Resolution Topographic Surveys of a Coastal Boulder Deposit to Monitor Change and Assess Tsunami vs Storm Wave Deposition in Java, Indonesia, American Geophysical Union 2019 Fall Meeting Scientific Program

Phillips, J., Toké, N.A., Langevin, C., Kleber, E., DuRoss, C.B., Hiscock, A., Wells, J.D., McDonald, G., Horns, D., and Carlson, J.K., 2017, The Traverse Ridge Site: A Wasatch Fault Example of the Challenges in Interpreting Earthquake Records and Hazards at Segment Boundaries, Paper No. 288-10, 2017 Annual Meeting of the Geological Society of America Meeting in Seattle, WA.

Horns, D.M., Hall, S., and Harris, R., 2016, A Multi-Disciplinary Approach to Tsunami Disaster Prevention in Java, Indonesia, American Geophysical Union 2016 Fall Meeting Scientific Program.

Andreini, J., Bunds, M.P., Harris, R.A., Yulianto, E., **Horns**, D.M., Prasetyadi, C., Putra, P., 2016, Assessment of Differential Uplift Along South Java, Indonesia from Terrace Elevations Mapped with Structure from Motion Photogrammetry, American Geophysical Union 2016 Fall Meeting Scientific Program

Toké, N. A., M.P. Bunds, J.B. Salisbury, JR. Arrowsmith, T. Sato, D. **Horns**, N. Abueg, J. Anderson, J.K. Carlson, L. Kellum, E. Matheson, A. Lawrence, and J. Selck, 2016, Dry Lake Valley Observations of Historical and Prehistoric Creep on the Central San Andreas Fault, Southern San Andreas Fault Evaluation (SoSAFE) Workshop: Project Successes and Future Challenges at the Southern California Earthquake Center Annual Meeting, Palm Springs, California, September 10, 2016

Deng, H., Harris, R.A., **Horns**, D.M., Yulianto, E., Bunds, M.P., Prasetyadi, C., Emmett, C., and Hall, S., 2016, Tsunami Disaster Risk Assessment and Prevention in West Java, Indonesia, American Geophysical Union 2016 Fall Meeting Scientific Program

Horns, D., Harris. R.A., Bunds, M.P., Fellows, S.A., Valenzuela, A.F., Andreini, J., and Hall, S.M., 2016, Historic and Prehistoric Tsunami Deposits in Java: Implications for Preparation and Evacuation Planning, Association of Environmental and Engineering Geologists Program with Abstracts – 2016, p. 57.

Harris, R., Major, J., Dunn, R., Deng, M., Meservy, W., Stewart, K., **Horns**, D.M., Bunds, M.P., Fellows, S.A., McFarlane, A., Valenzuela, A.F., Andreini, J., Hall, S., 2016, Discovering a Giant Seismic Gap in Java, Indonesia, and What Community Based Organizations are Doing About It, Association of Environmental and Engineering Geologists Program with Abstracts – 2016, p. 55.

Hall, S., Harris, R., **Horns**, D., 2016, Tsunami Risk Perceptions, Knowledge, and Efficacy in Java, Indonesia. Association of Environmental and Engineering Geologists Program with Abstracts – 2016, p. 55.

Mower, R. L., Bunds, M. and **Horns, D.,** 2011, Correlation of slip rate with water table height on an active urban landslide, Sherwood Hills, Utah, Association of Environmental and Engineering Geologists Annual Meeting, Anchorage, Alaska, Sept. 22, 2011.

Horns, D., 2011, A Brief Summary of Recent Work on the Northern Nephi segment of the Wasatch fault, Utah, invited presentation to the Utah Quaternary Fault Parameters Working Group, February 15, 2011.

Bunds, M.P., **Horns, D.**, White, R., Gardner, P., Oxford, J., Sailer, V., and Healy, A., 2009, A slowmoving slump in an urban area as a case study in detection mass movements for urban planning, Rocky Mountain Section of the Geological Society of America, Utah, May 13, 2009.

Horns, D., Rey, K.A., Barnes, C.S., McShinsky, R.D., and Palmer, M., 2009, New constraints on the timing of Prehistoric earthquakes on the northernmost part of the Nephi segment of the Wasatch fault, Utah, Rocky Mountain Section of the Geological Society of America, Utah, May 12, 2009.

Horns, D.M., Rey, K., Barnes, C.S., and Vaderplas, R.M., 2008, Constraining the history of large (magnitude-7) earthquakes on the Nephi segment of the Wasatch fault, Utah, Association of Environmental and Engineering Geologists Annual Meeting, New Orleans, Louisiana, Sept. 19, 2008.

Palmer, M., Vanderplas, R.M., Rey, K., Bagshaw, D., Barnes, C.S., McShinsky, R.D., and **Horns**, **D.M.**, 2008, Constraining the history of large (magnitude-7) earthquakes on the Nephi segment of the Wasatch fault, Utah, Geological Society of America Cordilleran/Rocky Mountain Section joint meeting, Las Vegas, Nevada, March 20, 2008.

Bagshaw, D., Palmer, M., McShinsky, R.D., Rey, K., Vanderplas, R.M., Barnes, C.S., and **Horns**, **D.M.**, 2008, Constraining the history of large (magnitude-7) earthquakes on the Nephi segment of the Wasatch fault, Utah, Utah Conference on Undergraduate Research, Orem, Utah, February 29, 2008.

Horns, D., 2008, Results of a Paleoseismic Study of the Nephi Segment of the Wasatch Fault, Utah, invited presentation to the Utah Quaternary Fault Parameters Working Group, February 13, 2008.

Dinklage, W., Bunds, M., and **Horns, D**., 2007, Geology of the Wasatch Mountains, Utah, unpublished field trip guidebook for a meeting of the Rocky Mountain Section of the American Association of Petroleum Geologists, October 7, 2007.

Horns, D., Dinklage, W.S., and R. Zollinger, 2007, Partnering with Industry to Improve Environmental Sustainability, *Geological Society of America Abstracts with Program*, v.39, no.5, p. 16.

White, R.C., Oxford, J., Gardner, P., Bunds, M., and **Horns, D.**, 2007, Episodic Movement of a Suburban Slump, *Geological Society of America Abstracts with Program*, v.39, no.5, p. 4.

Horns, D., Dinklage, W.S., Bunds, M., 2005, Assessing the use of research to motivate students at an open-enrollment college, *Geological Society of America Abstracts with Program*, v.37, no.7.

Horns, D., 1998, Monitoring of the Shurtz Lake Landslide, Spanish Fork Canyon, Utah: oral presentation to the Utah Geological Association.

Ashland, F.X., and **Horns, D.**, 1998, Monitoring of the Shurtz Lake Landslide, Spanish Fork Canyon, Utah: Poster presentation at the annual meeting of the Association of Engineering Geologists.

PUBLICATIONS

Toke', N.A., Thomas, J., Bunds, M.P., Arnoff, M., **Horns, D.M.**, and Carlson, J.K., 2017, Inferences about Segmentation from Recent Surface Breaks along the Wasatch Front revealed from Lidar, SfM, and Outcrops from American Fork Canyon to Dimple Dell Regional Park, Utah, in Lund, W.R., Emerman, S.H., Wang, W., and A. Zanazzi, eds., Geology and Resources of the Wasatch: Back to Front: Utah Geological Association Special Publication vol.46, p. 251-276.

Toké, N.A. and **D. Horns**, 2017, Characterizing the Timing of Ruptures Crossing the Boundary between the Provo and Salt Lake City Segments of the Wasatch fault, National Earthquake Hazards Reduction Program Technical Report # G16P00104, 22 pp.

Horns, D., Dinklage, W.S., Demming, D., and Heder, G., 2006, Geology of the Wasatch Front, unpublished guidebook for National Science Teacher's Association field trip, 13 pp.

Bunds, M., Dinklage, W., and **Horns, D.**, 2005, Geology of the Wasatch — A Two Billion Year Tour through the Upper Third of the Crust: unpublished guidebook for Geological Society of America field trip, 17 pp.

Horns, D. (editor), 2005., Utah Lake Comprehensive Management Plan, Resource Document: Written for the Utah Division of Fire, Forestry, and Public Lands, 109pp.

Horns, D., Bunds, M., and Dinklage, W., 2003, Geology Along the Wasatch Front: unpublished guidebook for American Association of Petroleum Geologists field trip, 15 pp.

Ashland, F.X., Lund, W.R., Giraud, R.E., McDonald, G.N., **Horns, D.M**., and Brimhall, W.H., 1999, Engineering Geology of Spanish Fork Canyon, Utah: Field Trip Guide for the 1999 Association of Engineering Geologists Annual Meeting, Salt Lake City, Utah.

Horns, D., 1995, Nitrate contamination of the Moroni, Utah municipal water supply and hydrologic control of nitrate contamination, in Lund, B. (Editor), Engineering and Environmental Geology of the Wasatch Front Region, Utah: Utah Geological Association Guidebook 24, p. 431-442.

Horns, D.M, and others, 1995, Environmental and engineering geology of the Wasatch Front region; 1995 Utah Geological Association field conference road log, in Lund, B. (Editor), Engineering and Environmental Geology of the Wasatch Front Region, Utah: Utah Geological Association Guidebook 24, p. 533-541.

Horns, D.M., and Verosub, K.L., 1995, Paleomagnetic investigation of late Neogene vertical axis rotation and remagnetization in central coastal California: Journal of Geophysical Research, vol. 100, no. B3, pp 3873-3884.

Holm, E.J., **Horns, D.M**., and Verosub, K.L., 1991, Rapid post-Miocene tectonic rotation associated with the San Gregorio fault zone in Central California: Geophysical Research Letters, v. 18, no. 12, pp 2213-2216.