

George H. Davis — Curriculum Vita

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1 Personal

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2 Education, Degrees, Theses

- 1964, **B.A.**, with honors, Geology, The College of Wooster, Wooster, Ohio
Davis, G.H., 1964, Application of graphic and trigonometric methods in applied structural analysis: B.A. thesis, The College of Wooster, Wooster, Ohio, 72 pp and 46 figures.
- 1966, **M.A.**, Structural Geology, The University of Texas, Austin, Texas
Davis, G.H., 1966, Geology of the eastern third of La Democracéa Quadrangle, northwestern Guatemala: M.A. thesis, The University of Texas, Austin, 78 pp.
- 1971, **Ph.D.**, Economic Geology, The University of Michigan Ann Arbor, Michigan
Davis, G.H., 1971. Structural analysis of the Caribou sulfide deposit, Bathurst, New Brunswick, Canada: Doctoral dissertation, The University of Michigan, Ann Arbor, 130 pp
- 2012, *Scientiae Naturalis Doctoris, honoris causa*, Carleton College

3 Appointments

Assistant Professor, Department of Geosciences, University of Arizona (1970-1976)
Director, Geology Field Camp, University of Arizona (1971-1975)
Associate Professor, Department of Geosciences, University of Arizona (1976-1982)
Professor, Department of Geosciences, University of Arizona (1982-1990)
Department Head, Geosciences, University of Arizona (1982-1986)
Vice Provost for Academic Affairs, University of Arizona (1986-1989)
Executive on Loan to the Arizona Board of Regents (1988-1989)
Interim Vice President for Business Affairs, University of Arizona (1989-1990)
President of the University of Vermont (1990-1991)
Benedict Distinguished Visiting Professor, Carleton College (Fall, 1992)
Professor, Department of Geosciences, University of Arizona (1993-2008)
Coordinator, Faculty Fellows Program, University of Arizona (1996-2000)
Regents Professor, Arizona University System (1998-2008)
Senior Vice President for Academic Affairs & Provost, Arizona (2000-2003)
Executive Vice President & Provost, University of Arizona (2003-2007)
Shifted FTE to 0.49 in 2008, with teaching (2 courses) in spring term only
Provost Emeritus, University of Arizona (2008-present)
Regents Professor Emeritus, University of Arizona (2008-present)
Honors Professor, University of Arizona (2010-2014)
Research Associate, Midland Valley Exploration, Ltd., Glasgow, UK (2011-2018)
Research Associate, Museum of Northern Arizona (Nov 2018-present)
Retired, (June 2, 2020).
Designated Campus Colleague (DCC), University of Arizona (July 2020 to present)

4 Early Geologic Field Experience

Doctoral field work in northern New Brunswick, Canada (summers, 1967-69)
Exploration Geologist, Hanna Mining Company, northern Michigan (summer, 1966)
Masters field work in northwestern Guatemala (summer, 1965)
Exploration Geologist, Hanna Mining Company, Ontario, Canada (summer, 1964)
Student, Geology Field Camp, Wind River Mountains, Wyoming (summer, 1963)
Assistant to Geologist, Consolidation Coal Company, Pittsburgh, PA
(summers 1960, 1961, & 1962)

5 Ongoing Research Projects

The heart of my research has been **field-oriented detailed structural analysis**, with particular emphasis on the study of faults, folds, shear zones, and fracture systems within ancient mountain belts and plateau provinces. I have worked at the interface of structural geology and regional tectonics, with major emphasis on the Basin and Range and Colorado Plateau tectonic provinces. From 2004 to present I have focused heavily on the combination of structural geology, active tectonics, and geoarchaeology in the Peloponnesos of Greece, applying detailed field mapping and analysis to evaluating the history and tectonic significance of the Sanctuary of Zeus, Mt. Lykaion.

Rincon Mountains Metamorphic Core Complex: mapping and interpretation of metamorphic core complexes, shear zone systems, detachment faulting, fault rocks (mylonites and cataclasites), pre-extension tectonic shortening, and Basin and Range faulting. I serve as an Investigator working in cooperation with Saguaro National Park, Rincon Mountains District.

Paradox Basin, Utah: study of transverse accommodation faults and fault-rock deformation crossing the salt-cored anticlines of the Paradox basin in order to evaluate the origin and structural significance of these compartmental fault zones and their openness to mineralization introduced by fluids. Field studies are complemented by comprehensive rock deformation experimentation. Supported by Keck Foundation.

Hunters Point Monocline, Arizona: mapping and interpretation of monoclinial folding and basement faulting along exceedingly well exposed structural system along the northeastern margin of the Defiance Uplift. Opportunities include placing timing, including thermochronologic constraints, on basement uplift and faulting. Permission received from the Minerals Department of the Navajo Nation. Initiated this research in my role as a Research Associate with the Museum of Northern Arizona (Flagstaff).

Mt. Lykaion, Greece: geoarchaeological mapping and analysis of the Sanctuary of Zeus, Mt. Lykaion, and 'forensic' analysis of provenance of building stones at temple sites in the Peloponnesos. Work also includes efforts to establish a 600 km² heritage park (Parhassian Park) in the Peloponnesos. The Mt. Lykaion Excavation and Survey Project is supported by the American School of Classical Studies, Athens, and the Greek Archaeological Service.

Megalopolis, Greece: tectonic basin analysis carried out to frame structural context for the ~500 ka Marathusa paleolithic elephant kill site. Investigation of the role of earthquake-induced liquefaction in basin sediments. Supported by the American School of Classical Studies, Athens.

Interpreting geology to the broader (Tucson) public: Saguaro National Park, Coronado National Forest, Pima County Parks and Recreation, Sonoran Desert Museum, Tucson Botanical Gardens, Sabino Canyon (within Coronado National Forest), Amerind Foundation, and University of Arizona Humanities Program.

6 Main Courses Taught (1970-2020)

Detailed Structural Analysis
Advanced Structural Analysis
Undergraduate Structural Geology
Geology Field Camp
Active Tectonics
Geological Disasters and Society
Freshman Colloquia (Honors College)
Archaeology and Geology of Ancient Greece
Colorado Plateau Geology
Geological Mapping as Preparation for Field Camp
Research Workshops in Structural Geology

7 Honors, Awards, and Special Recognition or Service

Distinguished Alumni Award from The College of Wooster (2016)

Superior Teaching Award from the College of Humanities Seminar Program, Fall 2015, for course on *Colorado Plateau Beauty: Rocks, Structures, Landscapes, and People*. Co-Taught with Peter Kresan.

George H. Davis Undergraduate Research Fund: established (in 2015) by The University of Arizona Department of Geosciences and the University of Arizona Foundation

Commencement Speaker, Jackson School of Geosciences, The University of Texas, Austin. “*Magna Cum Visione*” (May, 2014)

Distinguished Membership in National Society of Collegiate Scholars (2012)

President of Geological Society of America (2012-2013)

Commencement Speaker, Carleton College (2012)

Honorary degree recipient, Carleton College (2012)

2012 National Recipient of Inspire Integrity Award, conferred by the National Society of Collegiate Scholars (NSCS)

Osgood Lecturer, The College of Wooster, Ohio (2011)

Career Contribution Award, Geological Society of America, Structural Geology and Tectonics Division: “*For Achievements that have led to major advances in structural geology and tectonics.*” (2011)

Certificate of Appreciation for ‘*exemplary and tireless service*’ on the Advisory Committee for Geosciences, National Science Foundation (2009)

George H. Davis [Endowed] Travel Fellowship Fund for outstanding vision, leadership, and commitment to faculty recruitment, development, and retention. Establishment by the University of Arizona Foundation of The University of Arizona (2008)

Outstanding Faculty Member, Conferred by Mortar Board Senior Honorary Society, University of Arizona (2007)

Extraordinary Service to Academic Advising, conferred by Undergraduate Affairs, University of Arizona (2007)

Distinguished Honorary Alumnus, James E. Rogers College of Law, University of Arizona (2007)

Commencement Speaker, St. Gregory College Preparatory School, Tucson, AZ (2007)

Commencement Speaker, University of Arizona South, Sierra Vista, AZ (2007)

Peter W. Likins Inclusive Excellence Award for the 2006-2007, conferred by the Diversity Coalition of The University of Arizona.

Special Recognition for Contributions to American Indian Language Development Program (2007)

Special Recognition for Leadership as Provost by American Indian Studies Program (2007)

Special Recognition for Leadership as Provost by Asian American Faculty & Staff Association (2007)

Chair, National Science Foundation Advisory Committee for GEO Directorate (Geosciences: Solid-Earth, Ocean, Atmospheric Sciences) (2006-2009)

Special Award for Outstanding Service to the University of Arizona, Staff Advisory Council (2006)

Recognition of Support conferred by Africana Studies Community Advisory Board (2006)

- Honorary Bobcat:** members of this honorary society selected on the basis of scholarship, leadership, university involvement, community services, and commitment to The University of Arizona (2003)
- College of Science Outstanding Faculty Award,** The University of Arizona (2003)
- Academic Hall of Fame,** Upper St. Clair High School, Pittsburgh, Pennsylvania (2002)
- Outstanding Faculty Award,** in recognition of the contributions to teaching and research in Geosciences at The University of Arizona, by the University of Arizona Geoscience Advisory Board (2002)
- Association for Women Faculty Presidential Award for Administrative Leadership** (2001)
- Commencement Speaker,** The University of Arizona (2000)
- University of Arizona Student Senate Bumps Tribolet Student Service Award,** for an individual who demonstrates passion and dedication to the promotion of student needs and concerns (2000)
- American Association of Petroleum Geologists Distinguished Lecturer** (1998-1999)
- Inducted **Regents Professor,** University of Arizona (1998)
- Keynote Speaker for Tenth Keck Research Symposium in Geology** (Participating colleges: Amherst, Beloit, Carleton, Colorado, Franklin and Marshall, Pomona, Smith, Trinity, Washington and Lee, Whitman, Williams, Wooster), Wooster, Ohio (1998)
- Appointed **Faculty Fellow,** The University of Arizona (1994)
- Elected **Member of GSA Council,** Geological Society of America (1993-1996)
- Benedict Distinguished Visiting Professorship,** Carleton College, Northfield, MN (1992)
- Commencement Speaker,** St. Gregory College Preparatory School, Tucson, AZ (1992)
- Elected to **Boulder Society,** University of Vermont Honorary Society Emphasizing Leadership and Service (1990)
- Cum Laude Society,** Honorary Member, St. Gregory College Preparatory School, Tucson, AZ (1990)
- Appointed **President of The University of Vermont** (1990)
- Selected by The University of Michigan's Rackham Graduate School as among 100 Most Distinguished Ph.D. Recipients of The University of Michigan.** The occasion was the 50th anniversary of the Graduate School (1988)
- Bernstein Geologist-in-Residence,** Carleton College, Northfield, MN (1988)
- Faculty of Science Recognition Award for Dedicated and Distinguished Leadership,** The University of Arizona, Tucson, AZ (1986)
- Faculty of Science Distinguished Teaching Award,** The University of Arizona, Tucson, AZ (1985)
- Keynote Speaker, Founding Meeting of the Division of Structural Geology and Tectonics,** Geological Society of America (1981)
- Named **Fellow of the Geological Society of America** (1980)
- National Science Foundation Faculty Research Scholar** (1976)
- Lindgren Citation Award for Excellence in Research.** This international award is conferred by the Society for Economic Geologists to a scientist younger than 35 years of age for the most outstanding article of the year in the field of economic geology (1971)
- National Science Foundation Fellow** (1969-1970)
- NASA Fellow** (1967-1969)
- Phi Kappa Phi,** The University, of Michigan, Ann Arbor, MI (1968)
- Sigma Xi,** The University of Michigan Ann Arbor, MI (1968)

Manges Athletic Prize for Outstanding Senior Athlete, The College of Wooster, Wooster, OH (1964)

Honors in Geology, The College of Wooster, Wooster, OH (1964)

8 Professional and University Services and Activities

Invited Speaker, El Paso Community College. “*Ascending Mt. Lykaion to the Sanctuary of Zeus: A Virtual Hike into Bronze Age Archaeology & Geology.*” April 22, 2020.

Invited Speaker, Pima County/Natural Resources Environmental Education Program. “*Geology of the Tucson Mountains.*” March 6, 2021.

Invited Keynote Speaker: Topical Session on “*Strain in the Footwalls of Detachment Faults: New Insights on the 40th Anniversary of the Seminal GSA Memoir ‘Cordilleran Metamorphic Core Complexes’*”, Geological Society of America, October 2020.

Field Trip Co-Leader with Jon Spencer and George Gehrels, “*Catalina-Rincon Metamorphic Core Complex, Tucson, Arizona, September 25-27, 2019,*” Annual Meeting of the Geological Society of America Meeting, Phoenix, Arizona, September 2019.

Co-Convenor with Jennifer C. McIntosh, Mark Person, Peter W. Reiners, Mark D. Barton, and Grant Ferguson, “*Evolution of Paleo to Modern Fluid Flow Systems in the Colorado Plateau and Other Sedimentary Environments,*” Annual Meeting of the Geological Society of America Meeting, Phoenix, Arizona, September 2019.

Member, Geology Foundation Advisory Council, Jackson School of Geosciences, The University of Texas at Austin, 2019-2022.

Invited Speaker, co-presented with Haralambos Kranis, The Parrhasian Heritage Park viewed in geologic perspective: Scientific conference on “*Protecting and promoting the values of the cultural and natural environment in the areas where Arcadia, Messinia and Elis meet*”, Athens, Greece, under the auspices of the President of the Hellenic Republic, Mr. Prokopios Pavlopoulos, May 31, 2019.

Invited Speaker, Tucson Symphony Orchestra fundraising gathering, *Music Rocks*, April 6, 2019.

Pro-Bono Consultant, Tucson Botanical Gardens, Tucson, Arizona: studying Harrison G. Yokum’s (TBG Founder) enormous collection of rocks that are clustered throughout the Gardens and preparing interpretive materials for Visitors. 2018-2019.

Field Trip Leader, serving Pima County Parks and Recreation staff and volunteers, and general public: Tucson Mountains, January 25, 2019.

Research Associate, Museum of Northern Arizona. Mission of MNA: “*...to inspire a sense of love and responsibility for the beauty and diversity of the Colorado Plateau through collecting, studying, interpreting, and preserving the region’s natural and cultural heritage.*”

Invited Speaker, Arizona Senior Academy, Tucson, AZ, “*Geology of the Rincons, Arizona Senior Academy’s ‘Backyard’*,” January 3, 2019

Speaker, University of Arizona Memorial Tribute to Henry Koffler, Crowder Hall, November 19, 2018.

Invited Teacher/Lecturer for Short Course in Global Geology, Peking University, Earth and Space Sciences Division, Beijing, China: *3D Visualization; Active Tectonics of Western United States; Structure-Tectonics-Hazards-Geoarchaeology of Greece; Structure-Tectonics of the Colorado Plateau; Structure-Tectonics of the Colorado Plateau; Physical-Analogue Modeling; Poster Session on Crust-Busting Faults.* ~20 graduate students. May 16 - May 26, 2018.

- Invited Speaker**, Chinese Academy of Geological Sciences, Institute of Geology, Beijing, China: “*Structure-Tectonics of Metamorphic Core Complexes:*” May 25, 2018.
- Invited Speaker**, Institute of Geology, Peking University, Beijing, China: “*Structure-Tectonics and Geoarchaeology, Sanctuary of Zeus, Mt. Lyakion, Greece,*” May 22, 2018.
- Invited Speaker**, China University of Geosciences, Beijing, China: “*Structure-Tectonics of the Colorado Plateau,*” May 18, 2018.
- Master of Ceremonies**, Memorial Program in Honor of University of Arizona President Emeritus, Henry Koffler: The Arizona Senior Academy, The Academy Village, April 20, 2018.
- Invited Speaker**, Tucson Botanical Gardens, “*Tectonic Origami: Rocks Can Fold Like Paper.*” January 25, 2018.
- Member**, GSA Committee on Supporting Penrose Conferences and Thompson Field Conferences, 2017-2018.
- Invited Speaker**, Department of Geosciences, National Taiwan University: “*Geoarchaeology and Structural Geology of the Sanctuary of Zeus, Mt. Lykaion, Peloponnese, Greece.*” November 13, 2017.
- Invited Keynote Speaker**, Department of Earth Sciences, National Central University, Taiwan: “*Intraplate Deformational History of the Colorado Plateau Province.*” November 10, 2017.
- Invited Keynote Speaker**, Department of Earth Sciences, National Central University, Taiwan: Workshop on Structural Analysis of Metamorphic Rocks. “*Structural Analysis of Metamorphic Core Complexes.*” November 9, 2017.
- Leader**, Galileo Circle Excursion: “*Greece: Tectonics, Geoarchaeology, and Ancient Greece, May 25-June 6, 2017.*” The College of Science, The University of Arizona. Led a group of 28 supporters of College of Science to Athens, Thermopolyae, Delphi, Helike, Nauplion, Mt. Lykaion, Mycenae, Corinth, Paros, and Santorini.
- Speaker**, University of Arizona School of Anthropology Speaker Series, “*Geology and Geoarchaeology of the Sanctuary of Zeus, Mt. Lykaion, The Peloponnese, Greece*”, February, 2017.
- Radio-Guest**, Arizona Science, NPR, Arizona Public Media: Episode 41: “*Soft as a Rock: Tectonic Stretching of the Earth’s Crust.*” August 12, 2016.
<https://radio.azpm.org/arizonascience/>
- Member**, Selection Committee, Inaugural Phi Kappa Phi Excellence in Innovation Award: \$100,000 to 4-year college or university for best practice in innovative, transformative solutions to a local, campus, national, or global challenge. 2016
- Invited Lecturer and Field Trip Leader**, Pima County Parks and Recreation, Public Lectures and Field Trips, Agua Caliente Park and Colossal Cave, Spring, 2016
- Invited Lecturer and Field Trip Leader**, Saguaro National Park, Rincon Mountain and Tucson Mountains District, Volunteer Training, 2015-2016
- Invited Lecturer and Field Trip Leader**, Arizona Sonoran Desert Museum, Docent Training on the Geological Setting of Tucson, Arizona. (2015, 2016)
- Keynote Speaker**, Research Symposium and 10th Anniversary Celebration, Jackson School of Geological Sciences, The University of Texas at Austin: “*Looking to the Future, Where are the Scientific Breakthroughs Likely to Take Place in Geology?*” (January, 2016)
- Invited “Prof at the Loft”**, a Humanities Seminar Program outreach event to the Tucson community. A Viewing of the Hollywood disaster film, *Dante’s Peak*, at the Loft Theater in Tucson, AZ, and in the tectonic context of explosive pyroclastic eruptions. Sponsored by The University of Arizona Humanities Seminar Program (2015)

- Co-Chair (with Renee Clary and Suzanne O’Connell) of GSA Pardee Session:** “*Celebrating the Genius of William ‘Strata’ Smith: Bicentennial Anniversary of Smith’s Revolutionary Map*”. Baltimore, Md, November, 2015
- Invited Speaker,** Department of Geological Sciences, University of Utah. “*Trek to the Bronze-Age Sanctuary of Zeu, Mt. Lykaion, Arcadia, Greece.*” And, “*Record of Progressive Deformation of the Colorado Plateau.*” 2015
- Member,** Geological Society of America Foundation Campaign Steering Committee (2014 – 2019). Attracted \$500,000 gift from J. David Lowell, establishing GSA’s J. D. Lowell Endowed Field Camp Scholarship Program, September 2019.
- Member,** Naming Committee for Geologic Mapping Award in Honor of Florence Bascom, Geological Society of America (2015)
- Invited Participant,** Geological Society of London Celebration of William Smith, 2015
- Chair,** Geologic Mapping Award Committee, Geological Society of America (2014-2018)
- Chair,** Geological Society of America Steering Committee for 200th-year celebration of William “Strata” Smith’s publication of the geological map of England (2014-2015)
- Visiting Expert Structural Geologist,** 3 weeks, Midland Valley Exploration, Glasgow, August 2014
- Member,** Search Committee for Executive Director of Geological Society of America (2014)
- Keynote Speaker,** Geological Society of Nevada: “*The Beauty of the Geology and Landscapes of the Colorado Plateau.*” (2014)
- Point Person** in first Geological Society of America Town Hall Series on Natural Disasters: Boulder (CO) Flooding. Held in Boulder, Colorado, September 10, 2014
- Exemplary Status** conferred by the “*On the Cutting Edge*” Program for 2 innovative teaching programs created by Davis: “*The News Hour*” and “*Crust-Busting Faults*” (2014)
- Member,** Board of Advisors, UofA Presents (Performing Arts), 2014-2019. Led the framing of a new Strategic Planning and an initiative on comprehensive Student Engagement.
- Field Trip Leader** for Brazil Division of British Petroleum, September/October, 2014.
- Invited Keynote Speaker,** “*Celebrating the eclectic tectonic legacy of Arthur W. Snoke*”, May, 2014, Bozeman Montana, Joint Meeting of Cordilleran and Rocky Mountain Sections, Geological Society of America (2014)
- Invited Keynote Speaker,** Geological Society of America Penrose Conference on Linkages and Feedbacks in Orogenic Systems, in honor of Bob Hatcher, April, 2014, Ashville, North Carolina. Title: “*Faults talk to one another: how do they do it?*” (2014)
- Invited Participant and Speaker,** National Science Foundation Workshop on Basement-Cored Uplift, Tucson, AZ, February, 2014. Title of talk: “*Insights from Arizona’s Transition Zone, and from Sierra del Haulfin, Argentina.*” (2014)
- Past President of the Geological Society of America** (2013-2014)
- Member, Steering Committee for initiating “On to the Future”,** major diversity initiative, Geological Society of America (2013-2014)
- Invited Keynote Speaker,** Bryce Canyon Festival, July, 2013, “*Bryce Canyon’s Hidden History, Geologically Speaking*”.
- Invited Keynote Speaker,** American Association of Petroleum Geologists Hedberg Research Conference on 3D Structural Geological Interpretation: Earth, Mind and Machine, Reno, Nevada. Overview of “*Structural Geology*” as a Discipline (2013)

- Participant**, Geological Society of London Field Trip: “*Structure and Tectonics of the NW Highlands of Scotland: from Deep Crust to Hydrocarbon Reservoirs.*” Trip leaders: Rob Butler and Rick Law (2013)
- Advisor**, University of Arizona (Student) Team for experimental testing of “*Gravitational Effect on Fault Formation,*” among 8 national finalist invited to run experiments in NASA’s Reduced Gravity Education Flight Program (2012-2013)
- Advisor**, University of Arizona Chapter of the National Society of Collegiate Scholars (2012-2014)
- Invited Participant** to National Association of Geology Teacher’s Workshop on “*Teaching Structural Geology, Geophysics, and Tectonics in the 21st Century,*” Knoxville, Tennessee (2012)
- Presidential Address**, Geological Society of America, “*Where Our Deepest Passions Intersect the World’s Compelling Needs*” (2012)
- Commencement Address**, Carleton College, “*Carleton College’s Personal and Professional Impact.*” (2012)
- Invited Speaker**, Ludwig Maximilian University, Munich. “*Quasi-Flexural Folding of Pseudo-bedding;*” *Geoarchaeology of the Sanctuary of Zeus, Mt. Lykaion, Greece;*” *Structural Geology of the Colorado Plateau.*” (2012)
- Invited Speaker**, Colorado College, “*Geoarchaeological Excursion to the Sanctuary of Zeus, Mt. Lykaion, Peloponnesos, Greece*” (2012)
- Vice President of the Geological Society of America** (2011-2012)
- Co-Chair of Public Affairs Committee** for Council of Scientific Societies Presidents (2011-202)
- Member** of Geology and Public Policy Committee (GPPC), Geological Society of America (2011-2014)
- Faculty participant** in “*Short Course on Ore Deposits Mapping,*” western Great Basin, University, University of Arizona Institute for Mineral Resources, J. David Lowell Professional Program in Mineral Resources (2011)
- Osgood Speaker**, Department of Geology, The College of Wooster, campus-wide lecture, entitled “*An Evening’s Geoarchaeological Excursion to the Sanctuary of Zeus, Mt. Lykaion, the Peloponnesos, Greece.*” (2011)
- Invited Participant**, Penrose Conference on Deformation Localization in Rocks, Cadaques, Spain, June/July, 2011. Presented “*Localization Control for the Catalina Detachment Fault, Rincon Mountains Metamorphic Core Complex, Tucson, Arizona, USA*” (2011)
- Invited Speaker**, University of Southern California, “*Geoarchaeology and Structural Geology of the Sanctuary of Zeus, Mt. Lykaion, Greece,*” 2011.
- Member**, American Bar Association (ABA) Site Visit Team, College of Law, University of Illinois, Champaign-Urbana (2011)
- Invited Speaker**, Arizona Geological Society, Tucson: “*Geoarchaeology of the Sanctuary of Zeus, Mt. Lykaion, Greece*” (2011)
- Invited Speaker**, Stanford Alumni Association (Tucson, Arizona): “*Catalinas, Corinth, Poseidon, and Zeus*” (2011)
- Member, Board of Directors**, Parrhasian Heiritage Foundation, to support the creation of the Parrhasian Heritage Park, the purpose of which is to unify, protect, and research a ~500 km² area in Western Arcadia, Northern Messenia, and Eastern Elis (Greece) (2011 to present)
- Invited Speaker**, University of Arizona Conference on Mediterranean Cultures, Climate, and Chronology. “*Tectonic Setting of the Eastern Mediterranean*” (2010)

- Invited Keynote Speaker**, Shlemon Specialty Conference on Modern Subsidence, Sea-Level Rise, and the Future of the Gulf Coast, sponsored by the Association of Environmental & Engineering Geologists. “*Active Normal Faulting and Subsidence Near the Gulf of Corinth*” (2010)
- Invited Speaker**, Carleton College, *Geoarchaeology of Sanctuary of Zeus, Mt. Lykaion (Peloponnesos)*, Sponsored by Department of Geology and Department of Classical Languages (2009)
- Invited Speaker**, Geological Society of America National Meeting, Portland Oregon: Session on Geological Mapping: key to successful management of water and land resources. “*Iterative geologic mapping and 3D structural modeling to identify spatial inconsistencies and create accurate visualization framework for geoarchaeological interpretations: Mt. Lykaion (Greece) Sanctuary of Zeus case study*” (2009)
- Invited Speaker**, National Science Foundation Directorate for Geosciences Community Meeting, American Geophysical Union December Meeting, San Francisco (2009)
- Invited Panelist**, Humanities-Science Panel, Humanities Week, The University of Arizona (2009)
- Board of Trustees**, St. Gregory College Preparatory School, Tucson, AZ (2009-2012)
Created “*Citation award for transformational department head leadership*,” with first award going to Dr. Edgar J. McCullough, Jr., Geosciences Department Head from 1970-1982. (2008)
- Speaker**, Department of Geosciences Colloquium, UofA. “*Tectonic dimensions of the geoarchaeology the Sanctuary of Zeus, Mt. Lykaion, Arcadia, Greece*” (2008)
- Invited Keynote Speaker** on “*Reservoir Scale Structures and Analysis*,” Midland Valley’s Silver Anniversary Technology Meeting, Glasgow, Scotland, 2008. Topic – *Character of thrust faulting, folding, and outcrop-scale deformation in the Pindos belt as revealed through detailed structural geologic mapping of the Sanctuary of Zeus, Mt. Lykaion, the Peloponnese* (2008)
- Invited Panelist**, Rocky Mountain European Scholars Consortium Meeting, Session entitled *Renarrating Arcadia*: Topic, “*Arcadia’s geomorphological landscape*” (2008)
- Chairperson**, “*Operational geology, uncertainty and scenario modeling (real time model update, solution space, comparison of parameters solution space, operations geology)*,” Midland Valley’s Silver Anniversary Technology Meeting, Glasgow, Scotland (2008)
- Invited Keynote Speaker**, Harrington Symposium on Geology of the Aegean, University of Texas, Austin: j“*Archaeological elements of Mt. Lykaion Sanctuary of Zeus (southern Peloponnese) in relation to tectonics and structural geology*” (2008)
- Commencement Address** at St. Gregory College Preparatory School, “*Beginnings.*” (2007)
- Commencement Address** at University of Arizona South, “*Teachers and Teaching.*” (2007)
- Invited Speaker** at University of Pennsylvania, Symposium on “*At the Altar of Zeus: The Mt. Lykaion Excavation and Survey Project.*” Title of paper: “*Fastening the Archaeology of Mt. Lykaion to a Geologic Framework*” (2007)
- Chair**, National Science Foundation Advisory Committee for Geosciences Directorate (2006-2009)
- Keynote address**, “*Tectono-structural evolution of the Colorado Plateau*,” Conference on Backbone of the Americas – Patagonia to Alaska: Geological Society of America and Asociación Geológica Argentina (2006)
- Host for Poet Laureate Robert Pinsky**, whom I invited in the context of The Provost’s Visiting Scholar Program on Creativity and Imagination (2005)

- Member** of AAU Provost delegation to “*Group of Eight*” research universities in Australia, seeking out new exchange programs for top undergraduate scholars and PhD students (2005)
- Invited Participant**, Association of American Universities Provost’s Meeting. Panelist on “*Recruitment and Retention of a Diverse Faculty and Student Body: Best Practices*” (2005)
- Mentor**, ELAM (Executive Leadership in Academic Medicine) workshop in Philadelphia, participating as mentor to ELAM Fellow Dr. Setsuko Chambers, Director of Women’s Oncology Program, University of Arizona (2005)
- Host for author Simon Winchester**, whom I invited to University of Arizona in the context of The Provost’s Visiting Scholar Program on Creativity and Imagination (2005)
- Speaker**, with D. Romano and M. Voyatzis, “*Ancient Cults, Ancient Games and Ancient Rocks*”, The University of Arizona (2005)
- Invited Participant**, National Academies Executive Leadership Workshop on Leading the Research University in the Digital Age, Austin, TX (2005)
- Invited Speaker**, with M. Voyatzis, Colleges of Science, Humanities, Social and Behavioral Science Distinguished Lecture Series: “*Stretching Greece: Geology, Archaeology and Greek Civilization*” (2004)
- Host for author Robert Grudin**, humanities scholar and author, whom I invited to University of Arizona in the context of The Provost’s Visiting Scholar Program on Creativity and Imagination (2004)
- Member**, Advisory Committee for the Keck Geology Research College Consortium (participating colleges of consortium are Amherst, Beloit, Carleton, Colorado, Franklin and Marshall, Pomona, Smith, Trinity, Washington and Lee, Whitman Williams, and The College of Wooster) (1998-2000)
- Distinguished Lecturer, American Association of Petroleum Geologists**. Spoke at Stanford University, University of California at Santa Barbara, Humboldt State University, University of Colorado, Mesa State College, Washington & Lee, Amherst, SUNY Albany, University of Minnesota at Duluth, University of Minnesota, University of Alabama, Duke University, Memphis State University, Rice University, Mississippi State University (1998-1999)
- Member**, National Science Foundation Panel on Active Tectonics (1997-1999)
- Geological Sciences External Review Consultant** to the Dean, The University of Wyoming (1997)
- Co-Chair** (with Pamela Borne), Geological Society of America Meeting, “*Real and virtual field and laboratory experiences*,” Salt Lake City, UT (1997)
- Member**, Advisory Board for Southern California Earthquake Center, a National Science Foundation Science and Technology Center. Institutional participants: University of Southern California, California Institute of Technology, University of California at Los Angeles, University of California at Santa Barbara, Scripps Oceanographic Institute, Lamont-Doherty Geological Observatory, and United States Geological Survey (1997-2000)
- Discussion Leader/Panelist**. National Meeting of the Geological Society of America “*Hot Topics*” program on “*The New Grand Staircase-Escalante National Monument: Environmental Preservation vs. Resource Exploitation vs. Tourism*.” Salt Lake City, UT (1997)
- Field Trip Leader**, Geological Society of America Penrose Conference on “*The Tectonics of Continental Interiors*,” Cedar Breaks, UT (1997)
- Field Trip Leader**, American Association of Petroleum Geology Hedberg Research Conference on “*Reservoir-Scale Deformation, Characterization and Prediction*,” Bryce Canyon, UT (1997)

- Keynote Speaker**, Keck Research Symposium, "*Rediscovering the Colorado Plateau*," The College of Wooster, Wooster, OH (1997)
- Member**, Membership Committee, Geological Society of America (1997-1999)
- Panel Chair** on "*The Ultimate Cause for Tectonic Exhumation: Active Rifting Versus Passive Gravitational Collapse*," Geological Society of America Penrose Conference on "*Exhumation Processes: Normal Faulting, Ductile Flow, and Erosion*," Crete (1996)
- Member**, NSF Sixth-Year Review Team for the Southern California Earthquake Center (1996)
- Chair**, Audit Committee, Geological Society of America (1996-1997)
- Member**, Committee to Revise Strategic Plan and Mission Statement, Geological Society of America (1996-1998)
- Member**, Committee on Annual Meeting Programs, Geological Society of America (1996-1997)
- Member**, Subcommittee on Missions Statement, Geological Society of America (1995-1996)
- Member**, Awards Committee, Geological Society of America (1995-1996)
- 1994-1995:
- Chair**, Day Medal Selection Committee, Geological Society of America
- Chair**, Career Contributions Selection Committee, Division of Structural Geology and Tectonics, Geological Society of America (1994-1995)
- Member**, National Science Standards Focus Group, to develop response by the Geological Society of America to National Research Council's draft of K-12 National Science Education Standards (1994)
- Member**, Audit Committee, Geological Society of America (1994)
- Co-Convener** (with Bernard Minster), Geological Society of America Symposium on "*Active Tectonics*," Seattle, WA (1994)
- Invited Speaker**, "*Active Tectonics Systems Science -- An Emerging Plan*," Meeting of IRIS (Incorporated Research Institutions for Seismology), Glendale, CA (1994)
on Active Tectonics to the IRIS consortium (Incorporated Research Institutes for Seismology)
on Active Tectonics Science - An Emerging Plan (1994)
- Invited Presentation** on Active Tectonics to the American Geophysical Union Geodesy Executive Committee, San Francisco, CA (1993)
- Invited Presentation** on Active Tectonics to the National Research Council's U.S. Geodynamics Committee, San Francisco, CA (1993)
- Invited Presentation** on Active Tectonics to the Division of Structural Geology and Tectonics of the Geological Society of America, Denver, CO (1993)
- Invited Participant**, UNAVCO Basic Science Planning Meeting on Satellite-Based Global Positioning Systems, Boulder, CO (1993)
- Consultant to Earth Sciences Division of the National Science Foundation** on the Topic of Active Tectonics, Washington. D.C. (1993)
- Invited Speaker**, "*Basic Science Planning Initiative in Active Tectonics*," American Geophysical Union, San Francisco, CA (1993)
- Invited Speaker**, "*Spreading and Collapse of Volcanic Constructs*," American Geophysical Union, San Francisco, CA (1993)
- Co-Chair**, American Geophysical Union, "*Union Session on Active Tectonics*," San Francisco, CA (1993)
- Convener of Active Tectonics Workshop**, Boulder, CO (1993)
- Geologic Interpretation Adviser**, Bryce Canyon National Park

- Geosciences Education Liaison** for the Council of the Geological Society of America (1993-1996)
- Head of National Task Force on Active Tectonics Science Initiative**, Sponsored by the National Science Foundation. Purpose, to Design Basic Science Plan for Interdisciplinary Research on Active Tectonics, with Strategic Relevance to Mitigating Natural Hazards Related to Active Faulting, Explosive Volcanism and Landslides. Resulted in establishment of new grants program in the Earth Sciences Division of the NSF (1993-1995)
- Member of the Career Contributions Selection Committee**, Division of Structural Geology and Tectonics, The Geological Society of America (1993-1994)
- External Reviewer** of the Department of Geology and Geophysics, University of Utah (1993)
- Invited Speaker**, Geological Society of America "*Nickelsen Symposium*," "*The Structural Geology of Bryce Canyon Hoodoos*," Baltimore, MD (1993)
- Invited Speaker**, Vermont Geological Society Meeting, "*Geology of the Bryce Canyon Region*," Burlington, VT (1991)
- Invited Speaker**, Cordilleran Meeting of the Geological Society of America, Tucson, Arizona: "*Catalina Mylonites--An Historical Perspective*" (1990)
- Member**, University of Michigan Alumni Advisory Board for the Department of Geology (1988-1993)
- Field Trip Leader**, "*Structural Geology of the Pinaleno and Rincon Metamorphic Core Complexes*," National Meeting of the Geological Society of America, Phoenix, AZ (1987)
- National Chairman for Geological Field Trips**, 100th National Meeting of the Geological Society of America, Phoenix, Arizona (1987)
- Secretary-Treasurer, Division of Structural Geology**, The Geological Society of America (1985-1987)
- Invited Speaker**, Penrose Conference on "*Metamorphic Core Complexes, Revisited*," Elko, NV (1985)
- Keynote Speaker**, Geological Society of London Symposium on "*Crustal Extension*." Durham, England (1985)
- Co-Convener**, with G.A. Davis, Structural Geology and Tectonics Division Symposium on "*Extensional Tectonics*," National Meeting of the Geological Society of America. Reno, NV (1984)
- Invited Panelist**, "*Revolution in the Earth Sciences, 1932-1982*," Carleton College, Northfield, MN (1983)
- Field Trip Leader**, "*Structural and Structural-Petrology of Metamorphic Core Complexes in Southern Arizona and Northern Sonora*," Geological Society of America, Cordilleran Section, Hermosillo, Sonora, Mexico (1981)
- Keynote Speaker**, Symposium on "*Frontiers in Structural Geology*," Founding Meeting of the Division of Structural Geology, Geological Society of America National Meeting, Cincinnati, OH (1981)
- Invited Speaker**, Symposium on "*Relations of Tectonics to Ore Deposits in the Southern Cordillera*," Arizona Geological Society, Tucson, AZ (1981)
- Invited Speaker**, Penrose Conference on "*Tectonics and Geophysics of the Appalachians*," Helen, GA (1980)
- Invited Speaker**, Penrose Conference on "*Structure and Geophysics of Mountain Belts*," Ascona, Switzerland (1978)

Co-Convener (with Peter Coney and Max Crittenden) of Geological Society of America Symposium on "*Cordilleran Metamorphic Core Complexes*," Seattle, WA (1997)

Co-Convener (with Peter Coney and Mix Crittenden) of Penrose Conference on "*Tectonic Significance of Metamorphic Core Complexes*," Tucson, AZ (1977)

Invited Speaker in Penrose Conference on "*Regional Geophysics and Tectonics of the Intermountain West*," Alta, UT (1975)

Invited Participant in workshop on "*The Environment and the Media*," Thorne Ecological Association, Alta, UT (1971)

9 Invited Lecture Presentations

University of Washington, Oregon State University, University of California at Berkeley, University of California at Santa Barbara, University of Southern California, University of Nevada at Reno, University of Wyoming, University of Utah, University of New Mexico, Northern Arizona University, Arizona State University, Fort Lewis College, Colorado School of Mines, University of New Mexico, University of Texas at Austin, Southern Methodist University, University of Michigan, Carleton College, The College of Wooster, University of Vermont, Tufts University, Williams College, Brown University, University of Paris, University of Rennes, Stanford University, Humboldt State University, University of Colorado, Mesa State College, Amherst, Washington & Lee, SUNY Albany, University of Minnesota, University of Minnesota at Duluth, University of Alabama, Duke University, Memphis State University, Rice University, Mississippi State University, Middle Eastern Technical University, & The University of Pennsylvania, Colorado College, Ludwig Maximilian University (Munich), Midland Valley Exploration (Glasgow), University of Utah, National Central University (Taiwan), National Taiwan University (Taiwan), Peking University (Beijing), Chinese Academy of Geological Sciences (Beijing), China University of Geosciences (Beijing), Athens (conference hosted by President of Greece), El Paso Community College.

10 Publications: Books, plus theses and dissertation

[B08] Davis, G.H., Bos Orent, E., Clinkscales, C., Ferroni, F.R., Guns, K.A., Gehrels, G.E., George, S.W.M., Hanagan, C.E., Hughes, A.N., Iriondo, A., Jepson, G., Kelty, C., Krantz, R.W., Levenstein, B.M., Lingrey, S.H., Miggins, D.P., Moore, T., Portnoy, S.E., Reeher, L.J., and Wang, J.W., **in review**, Kinematic, mechanical, and temporal emergence of the "Catalina detachment zone, Rincon Mountains metamorphic core complex, Tucson, Arizona: GSA Books.

[B07] Davis, G.H., Krantz, R.W., and Reynolds, S.J., **in preparation**, Structural geology of rocks and regions (4th edition): John Wiley and Sons, New York. 2024 is target year.

[B06] Davis, G.H., Reynolds, S.J., and Kluth, C. F., 2012, Structural geology of rocks and regions (3rd edition): John Wiley and Sons, New York, 839p.

[B05] Davis, G.H., 1999, Structural geology of the Colorado Plateau region of southern Utah, with special emphasis on deformation band shear zones: Geological Society of America Special Paper 342, 157 p.

[B04] Davis, G.H. and Reynolds, S.J., 1996, Structural geology of rocks and regions (2nd edition): John Wiley and Sons, New York, 776 p.

- [B03] Davis, G.H. and VandenDoler, E. (eds.), 1987, Geological diversity of Arizona and its margins: Excursions to choice areas: Arizona Geological Survey Special Publication No. 5, 422 pp.
- [B02] Davis, G.H., 1984, Structural geology of rocks and regions (1st edition): John Wiley and Sons, New York, 492 pp.
- [B01] Crittenden, M.D., Jr., Coney, P.J., and Davis, G.H., 1980, Cordilleran metamorphic core complexes: Geological Society of America Memoir 153, 18 articles, 490 pp.
- [D] Davis, G.H., 1971, Structural analysis of the Caribou sulfide deposit, Bathurst, New Brunswick, Canada: PhD dissertation, The University of Michigan, Ann Arbor, 130p. 2 maps.
- [T] Davis, G.H., 1966, Geology of the eastern third of La Democracia quadrangle, Guatemala: M.A. Thesis, The University of Texas, Austin, 78p, map, plate.
- [UG] Davis, G.H., 1964, Application of graphic and trigonometric methods in an applied structural analysis: Senior Independent Study, The College of Wooster, 120p.

11 Publications: Peer-Reviewed Articles and Maps

- P097] Jepson, Gilby, Carrapa, Barbara, George, Sarah W.M., Reeher, Lauren J., Kapp, Paul A., DeCelles, Peter G., Davis, George H., Thomson, S.N., Amadori, Chiari, Clinkscales, Chris, Jones, S., Gleadow, J.W., and Kohn, Barry P., **submitted**, Where did the Arizona-plano go? Middle to lower crustal processes required: Earth and Planetary Sciences Letters.
- [P096] Scoggin, S.H., Reiners, P.W., Shuster, D.L., Davis, G.H., Ward, L.A., Worthington, J.R., Nickerson, P.A., and Evenson, N.S., 2021, (U-Th)/He and $^4\text{He}/^3\text{He}$ thermochronology of secondary oxides in faults and fractures: A regional perspective from southeast Arizona: Geochemistry, Geophysics, Geosystems, v. 22, e2021GC009905.
- [P095] Reeher, L.J., Hughes, A.N., Davis, G.H., and Kemeny, J.M., **in preparation**, Finding the right place in Mohr circle space.
- [P094] Davis, G.H., Reeher, L.J., Jepson, G., Carrapa, B., Chaudoir, K., DeCelles, P., Reiners, P., **submitted**, Structure and thermochronology of basement/cover relations along the Defiance Uplift, Colorado Plateau tectonic province: American Journal of Science.
- [P093] Davis, G.H., Reeher, L.J., and Hanna-Wilson, M., **in preparation**, Nature and significance of transverse compartmental faulting with the Paradox Basin, Utah and Colorado, USA: to be submitted to Geological Society of America.
- [P092] Pearl, J., King, C., Swann, D.E., Filippone, C., Davis, G., and Eastoe, C., **in review**, Structural controls on low elevation water sources in the Sonoran Desert: Journal of Hydrological Process.
- [P091] Davis, G.H., 2020, Crust-busting faults: National Association of Geoscience Teachers (NAGT) *On the Cutting Edge* Collection, Teaching Activities in Structural Geology and Tectonics, Science Education Resource Center (SERC) at Carleton College.
<https://serc.carleton.edu/NAGTWorkshops/structure/SGT2012/activities/62791.html>
- [P090] Davis, G.H., 2020, Project X: Teach the earth, a portal to earth education resources: Science Education Resource Center (SERC) at Carleton College.
<https://serc.carleton.edu/teachearth/activities/237431.html>
- [P089] Davis, G.H., and Kranis, H., **in review**, The Parrhasian Park (Greece) in geologic perspective, *in* Romano, D. G., and Pantzou, N. (eds.), Protecting and promoting the values

of the cultural and natural environment in the areas where Arcadia, Messinia and Elis meet: Parrhasian Heritage Foundation, Tucson, AZ.

- [P088] Henriquez, S., DeCelles, P., Carrapa, B., Hughes, A., Davis, G., and Alvarado, P., 2020, Deformation history of the Puna plateau, northwestern Argentina: *Journal of Structural Geology*, v. 140, <http://doi.org/10.1016/j.jsg.2020.104133>
- [P087] Davis, G. H., **in press**, Excavation discovery of buttress-wall of ash altar, Sanctuary of Zeus, Mt. Lykaion, Peloponnese, Greece: Volume 1, Mt. Lykaion Excavation and Survey Project, American School of Classical Studies Excavation Monograph.
- [P086] Davis, G. H., **in press**, Geology and geoarchaeology of the Sanctuary of Zeus, Mt. Lykaion, Peloponnese, Greece: Chapter 11, Volume 1, Mt. Lykaion Excavation and Survey Project, American School of Classical Studies Excavation Monograph.
- [P085] Davis, G. H., Gehrels, G. E., and Spencer, J. E., 2019, Field-trip guide to the Catalina-Rincon metamorphic core complex, Tucson, Arizona: *Geological Society of America Field Guide* 55, 38p.
- [P084] Davis, G. H., 2019, Partitioned tectonic shortening, with emphasis on outcrop-scale folding and flattening, Pindos fold-and-thrust belt, Peloponnese, Greece: Special issue of the *Canadian Journal of Earth Sciences*: “Understanding plate tectonic processes and their consequences: A tribute to A. M. Celal Sengor”. *Canadian Journal of Earth Sciences*, <https://doi.org/10.1139/cjes-2018-0210>
- [P083] Davis, G. H., 2018, Cover Photo: Mega-block lintel of Upper Cretaceous pseudo-bedded limestone, Arcadian Gate, Ancient Messene. Length of block is nearly 6m: *Geoarchaeology*, v. 33, no. 6, cover.
- [P082] Davis, G. H., 2018, Styrolitic limestone, the stone of choice for ancient sanctuaries and temples, southwestern Peloponnese, Greece: *Geoarchaeology*, v. 33, pp. 708-722.
- [P081] Davis, G. H., 2018, Geologic and geoarchaeological mapping of the Sanctuary of Zeus, Mount Lykiaion, Peloponnesus, Greece: *Geological Society of America Digital Map and Chart Series* 23, xpp., doi:10.1130/2018.DMCH023. <http://www.geosociety.org/maps/2018-DMCH023/?WebsiteKey=a5b62ffc-18e7-49eb-b75a-db5406bdc7ea>
- [P080] Davis, G. H., 2017, Cover Photo: East-directed photograph of smooth conical summit region of the Sanctuary of Zeus, Mt. Lykaion, Arcadia, Greece: *GSA Today*, v. 27, no. 12.
- [P079] Davis, G. H., 2017, Tectonic klippe served the needs of cult worship, Sanctuary of Zeus, Mt. Lykaion, Peloponnese, Greece: *GSA Today*, v. 27, no. 12, p. 4-9, doi:10.1130/G353A.1.
- [P078] Davis, G. H., 2016, Visual metaphors in structural geology: a means for enhancing 3-D visualization, *in* Krantz, R. W., Ormand, C. J., and Freeman, B., eds., *3D Structural Interpretation: Earth, mind, and machine*: American Association of Petroleum Geologists Memoir 111, p. 25-51.
- [P077] Davis, G. H., 2016, Forward, *in* J. K. Greenberg and G. R. Wessel (eds.), *Geoscience for the public good and global development: Toward a sustainable future*: Geological Society of America Special Paper 520, p. vii-viii.
- [P076] Romano, I. B., Davis, G. H., and Romano, D. G., 2015, The monument landscape and associated geology at the Sanctuary of Zeus on Mt. Lykaion, *in* *Proceedings of ASMOSIA X International Conference*, La Sapienza, Universita di Roma, Rome, May 21-12, 2012, p. 429-436.

- [P075] Davis, G. H., 2014, Summary of geological accomplishments, 2004-2011, Appendix 2 in Romano, David G., and Voyatzis, M. E., Mt. Lykaion Excavation and Survey Project, Part I, The Upper Sanctuary: Hesperia, The Journal of the American School of Classical Studies at Athens, v. 83, p. 638.
- Davis, G.H., 2014, The news hour: National Association of Geoscience Teachers (NAGT) *On the Cutting Edge* Collection, Teaching Activities in Structural Geology and Tectonics, Science Education Resource Center at Carleton College (SERC)
<https://serc.carleton.edu/NAGTWorkshops/structure/SGT2012/activities/62792.html>
- Davis, G.H., 2014, Crust-busting faults: National Association of Geoscience Teachers (NAGT) *On the Cutting Edge* Collection, Teaching Activities in Structural Geology and Tectonics, Science Education Resource Center at Carleton College (SERC).
[\[https://serc.carleton.edu/NAGTWorkshops/structure/SGT2012/activities/62791.html\]](https://serc.carleton.edu/NAGTWorkshops/structure/SGT2012/activities/62791.html)
- [P074] Davis, G. H., 2014, Quasi-flexural folding of pseudo-bedding: Geological Society of America Bulletin, v. 126, p. 680-701.
- [P073] Davis, G. H., Holmlund, J., and Ahlgren, S. G., 2013, Structural geologic maps of conjugate normal-fault and strike-slip deformation band shear zones in Navajo Sandstone, Utah: Geological Society of America (GSA) Digital Maps and Charts 15, 2 sheets.
http://www.geosociety.org/maps/2013-DMCH015/DMCH015_Sheet-2.pdf
- [P072] Davis, G. H., 2013, The Geological Society of London celebrates GSA's 125th anniversary: GSA Today, v. 23, no. 10, p. 16-17. ^{SEP}_{SEP}
- [P071] Davis, G. H., 2013, Localization control for chlorite breccia deformation beneath Catalina detachment fault, Rincon Mountains, Tucson, Arizona: Journal of Structural Geology, v. 50, pp. 237-253.
- [P070] Davis, G. H., 2013, GSA 2012 Presidential Address: "Where our deepest passions intersect the world's compelling needs": GSA Today, v. 23, pp. 14-18.
- [P069] Davis, G. H. (Chair, NSF Advisory Committee for Geosciences), Brune, W., Beardsley, R. C., Benitez-Nelson, C. R., Drufel, E., Erwin, D. H., Foufoula-Georgiou, E., Francisco, J. S., Gombosi, T. I., Grubisic, V., Hansen, J., Harriss, R. C., Haymet, T., Hixon, M., Jeanloz, R., Kellogg, L. H., Kiner, J., Lynn, W., Marshall, C., Mayer, L., Mora, C., Myers, S., Noonan, N. E., Pirone, M., Richardson, M. J., Rosenberg, A. A., Schimel, D. S., Shepson, P. B., Smith, R. W., Snow, J. T., Solomon, S., Strang, C., Taylor, O., Thompson, L. G., and Watson, E. B., 2009, GeoVision Report: Unraveling earth's complexities through the geosciences: GEO Directorate (atmospheric, earth, and ocean sciences), National Science Foundation, 39p.
- [P068] Davis, G. H., Constenius, K. N., Ornelas, E. P. R., and Cox, L. J., 2012, Structural-geologic map relationships in the Salcito Ranch Area, Rincon Mountains, southern Arizona: Arizona Geological Survey CR-11-C, 20 p., one map sheet.
- [P067] Davis, G.H., 2009, Geology of the Sanctuary of Zeus, Mount Lykaion, southern Peloponnese, Greece: Journal of Virtual Explorer, v. 23, Electronic Edition, ISSN 1441-8142, v. 33, 58p.
- [P066] Davis, G.H., and Bump, A.P., 2009, Structural geologic evolution of the Colorado Plateau, in Kay, S.M., Ramos, V.A., and Dickinson, W.R., (eds.), Backbone of the Americas: Shallow subduction, plateau uplift, and ridge and terrane collision: Geological Society of America Memoir 204, p. 99-124.
- [P065] Davis, G. 2008, Retrospective on "sense of shear" in relation to deciphering metamorphic core complexes, in Declan De Paor (ed.), Making sense of shear (in honor of Carol

- Simpson), *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, volume 30, paper 1, 17p.
- [P064] Davis, G. H., 2008, Archaeological elements of Mt. Lykaion Sanctuary of Zeus (southern Peloponnesus) in relation to tectonics and structural geology, in Catlos, E. (ed), *Geology of the Aegean: IOP (Institute of Physics) Conference Series, Earth and Environmental Science (EES)*, v. 2 012001. <http://www.iop.org/EJ/abstract/1755-1315/2/1/012002>.
- [P063] Davis, G.H., 2006, Reaching beyond myth, review of *The Oracle: The Lost Secrets and Hidden Message of Ancient Delphi*, by William J. Broad: *Geotimes*, July 2006.
- [P062] Davis, G.H., 2005, Imagined field notes of geologist turned president then provost: *The Compass, Journal of Earth Sciences*, Vol. 79, No. 1, p. 29-32.
- [P061] García, P.E. and Davis, G.H., 2004, Evidence and mechanism for folding of granite, in Sierra de Haulfin basement-cored uplift, northwest Argentina: *American Association of Petroleum Geologists*, v. 88, no. 9, p. 1255-1276.
- [P060] Davis, G. H., Constenius, K. N., Dickinson, W. R., and Rodriguez, E. P., 2004, Fault and fault-rock characteristics associated with Neogene extension in the Catalina-Rincon region of southeastern Arizona: *Geological Society of America Bulletin*, v. 116, no. 1/2, p. 128-141.
- [P059] Tindall, S.E., and Davis, G.H., 2003, Joint Spacing and distribution in deformation band shear zones: *Geological Magazine*, v. 140, no. 1, p. 1-9.
- [P058] Bump, A.P., and Davis, G.H., 2003, Late Cretaceous to early Tertiary Laramide deformation of the northern Colorado Plateau, Utah and Colorado: *Journal of Structural Geology*, v. 25, p. 421-440.
- [P057] McQuarrie, N., and Davis, G.H., 2002, Crossing the several scales of strain-accomplishing mechanisms in the hinterland of the central Andean fold-thrust belt, Bolivia: *Journal of Structural Geology*, v. 24, no. 10, p 1587-1602.
- [P056] Davis, G.H. and Pollock, G., 2001, Geology of Bryce Canyon National Park, in Sprinkle, D. (ed.), *Geology of the Utah National Parks and Monuments: Utah Geological Association*, p.37-60.
- [P055] Davis, G.H., Bump, A, Garcia, P., and Ahlgren, S., 2000, Conjugate Riedel shear zones: *Journal of Structural Geology*, v. 22, p. 169-190.
- [P054] Davis, G.H., 1999, Tribute to Peter J. Coney [1929-1999]: *Geological Society of America Structural Geology and Tectonics Newsletter*, v. 18, no. 2, p. 11-14.
- [P053] Tindall, S.E. and Davis, G.H., 1999, Monocline development by oblique-slip fault-propagation folding: the East Kaibab monocline, Colorado Plateau Utah: *Journal of Structural Geology*, v. 21, p.1303-1320.
- [P052] Davis, G.H., Rodriguez, E.P., Cox, L.J., Ornelas, R., Constenius, K.N., Johnson, J.A., Kong, F., Bedford, J.M. and Pecha, M., 1998, Cohesive crush breccias, microbreccias, and cataclasites in granitic footwall of a normal fault *in* Snoke, A.W., Tullis, J.A., and Todd, V.R., eds., *Fault-related rocks: a photographic atlas: Princeton University Press, Princeton*, p. 36-37.
- [P051] Davis, G.H., Cox, L.J., Ornelas, R., Constenius, K.N., Johnson, J.A., Kong, F., Bedford, J.M., Pecha, M., and Rodriguez, E.P., 1998, Protomylonite, augen mylonite, mylonite, protocataclasite, and cataclasite in granitic footwall of a detachment fault, *in* Snoke, A.W., Tullis, J.A., and Todd, V.R., eds., *Fault-related rocks: a photographic atlas: Princeton University Press, Princeton*, p. 160-163.
- [P050] Davis, G.H., 1998, Fault-fin landscape: *Geological Magazine*, v. 135 (2), p. 283-286.

- [P049] Davis, G.H., 1997, Field guide to geologic structures in the Bryce Canyon region Utah: American Association of Petroleum Geologists Conference on Reservoir-Scale Deformation: Characterization and Prediction: The University of Arizona, Tucson, 119 p.
- [P048] Davis, G.H., 1997, Field Guide to Geologic Structures in the Zion-Bryce-Cedar Breaks Region, Utah: Geological Society of America Penrose Conference on Tectonics of Continental Interiors: Brian Head, Utah, 126p.
- [P047] Davis, G.H. (Chair), Bevis, M., Blom, R.G., Brandon, M., Bull, W., Cowan, D., Dokka, R.K., Fink, J., Humphreys, E., Johnston, A., Mayer, L., Lay, T., McNutt, M., Minster, B., Sieh, K., Smith, R.B., Sutter, J., Tullis, J., Yeats, R.S., Zoback, M.L., 1996, Active tectonics and society: a plan for integrative science: Supported by grant from the National Science Foundation, 56p.
- [P046] Davis, G.H., 1995, The Active Tectonics planning initiative: GSA Today, v. 5, no. 7, p. 148-149.
- [P045] Merle, O.R., Davis, G.H., Nickelsen, R.P., and Gourlay, P.A., 1993, Relation of thin-skinned thrusting of Colorado Plateau strata in southwestern Utah to Cenozoic magmatism: Geological Society of America Bulletin, v. 1050, p. 387-398.
- [P044] Naruk, S.J., Bykerk-Kauffman, A., Currier-Lewis, D. Davis, G.H., Faulds, J.E., and Lewis, S.W., 1987, Kink folding in an extended terrane: Tortilla Mountains, southern Arizona: A reply to Earl R. Verbeek: Geology, v. 15, no. 9, pp. 872-873.
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- [P042] Davis, G.H., Gardulski, A.F., and Lister, G.S., 1987, Shear zone origin of quartzite mylonitic pegmatite in the Coyote Mountains metamorphic core complex, Arizona: Journal of Structural Geology, v. 9, no. 3, pp. 289-297.
- [P041] Davis, G.H., Naruk, S.J., and Thorman, C., 1987, Structural geology of the Rincon and Pinaleno metamorphic core complexes, southeastern Arizona, *in* Davis, G.H., and others (eds.), Expose of the Geology of Arizona: Arizona Bureau of Geology and Mineral Technology, Tucson, Arizona.
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- [A036] Davis, G.H., 1990, Shortening of the Claron formation at Bryce Canyon, Utah: Geological Society of America Abstracts with Programs, v. 22, no. 3, p. 17.
- [A035] Shafiquillah, M., Damon, P.E., Davis, G.H., and Glassman, J. Reed, 1990, Timing of structural movements through K-Ar dating of fault products -submicron clay gouge, cataclasite, and breccia: Geological Society of America Abstracts with Programs, v. 23, no. 1, p. 2063.
- [A034] Shafiquillah, M., Davis, G.H. Damon, P.E., Glassman, J.R., and Demer, L.J., 1988, Exploring the application of K-Ar isotopic analyses to fault gouges: Is the age of faulting disclosed?: New Frontiers Symposium, Bulletin of American Association of Petroleum Geologists, v. 73, p. 551.
- [A033] Damon, P.E., Davis, G.H., and Peirce, H.W., 1988, Determination of the timing of structural movements through K-Ar dating of fault gouge and cataclasite: International Geological Congress, v. 3, p. 81.
- [A032] Lundin, E., and Davis, G.H., 1987, Southeast vergent thrust faulting and folding of the Eocene (?) Claron formation, Bryce Canyon National Park Region, Utah: Geological Society of America Abstracts with Programs, v. 19, no. 5, p. 317.
v. 18, P.98.
- [A031] Krantz, R.W., and Davis, G.H., 1986, Geometric and kinematic inter-relationships of faults and joints, northern San Rafael swell, Utah: Geological Society of America Abstracts with Programs, v. 18, p. 368.
- [A030] Davis, George H. and Krantz, Robert W., 1986, Post-"Laramide" thrust faults in the Claron Formation, Bryce Canyon National Park, Utah: Geological Society of America Abstracts with Programs, No. 85775, p. 98.
- [A029] Davis, G.H., 1986, Frontiers of geological structural analysis in Arizona: Arizona Geological Society Digest. v. 15, p. 83.
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- [A024] Davis, G.H., 1985, Southeastern Arizona: A showcase of exemplary fault rocks and structures fashioned through stretching of continental crust: Symposium on Continental Crustal Extension, Durham, England, Abstract 32.

- [A023] Davis, G.H., 1985, Modeling of an upward-tapering normal-slip shear zone: Geological Society of America Abstracts with Program, v. 17, p. 559: Geological Society of America Abstracts with Programs, v. 18, p. 98.
- [A022] Davis, G.H., 1985, Metamorphic core complexes - expression of crustal extension by ductile-brittle shearing of the geologic column, in Lucchitta, L., (eds.), Heat and detachment in crustal extension on continents and planets: Morgan, P., and Soderbloom, L., Planetary Institute Contribution No. 575, pp. 38-39.
- [A021] Kligfield, R., Crespi, J., Davis, G.H., and Naruk, S., 1984, Development of rock fabric during continental rifting: Theory and applications for the field geologist: Geological Society of America Abstracts with Programs, v. 15, p. 650.
- [A020] Naruk, S.J., and Davis, G.H., 1983, Calculation of strain values and simple-shear translations from mylonitic gneiss in a Cordilleran metamorphic core complex: Geological Society of America Abstracts with Programs, v. 15, p. 650.
- [A019] Crespi, J., Kligfield, R., Naruk, S., and Davis, G.H., 1983, Methods of strain analysis in Arizona core complexes: Geological Society of America Abstracts with Programs, v. 15, p. 426.
- [A018] DiTullio, L.D., and Davis, G.H., 1983, Late stage, brittle development of the decollement zone of the Santa Catalina-Rincon metamorphic core complex: Tucson, Arizona: Geological Society of America Abstracts with Programs, v. 15, p. 425.
- [A017] Lingrey, S.H., and Davis, G.H., 1982. Kinematic/geometric evolution of the Rincon Mountains metamorphic core complex, southern Arizona: Geological Society of America Abstracts with Programs, v. 14, p. 181.
- [A016] Davis, G.H., Showalter, S.R., Benson, S.G., McCalmont, L.S., Faulds, J.C., and Cropp, F.W., 1982, The Apache uplift, heretofore unrecognized Colorado Plateau uplift: Geological Society of America Abstracts with Programs, v. 14, pp. 472-473.
- [A015] Kligfield, R., Davis, G.H., and Naruk, S.J., 1982, Strain patterns of extensional orogens: Geological Society of America Abstracts with Programs, v. 14, p. 532.
- [A014] Davis, G.H., 1981, Metamorphic core complexes - expressions of regional ductile stretching and rotational, listric(?) faulting: Geological Society of America Abstracts with Programs, v. 13, p. 51.
- [A013] Lepry, L.A., Jr., and Davis, G.H., 1981, Superposed deformation in the Devonian Excelsior phyllite, Yauli Dome region, Cordillera Occidental, Peru: Geological Society of America Abstracts with Programs, v. 13, p. 66.
- [A012] Davis, G.H., and Hardy, J.J., Jr., 1981, Mid-Miocene listric normal faulting in the southern Basin and Range: Geological Society of America Abstracts with Programs, v. 13, p. 51.
- [A011] Davis, G.H., 1981, The structural frontier of metamorphic core complexes and listric normal fault systems in the Basin and Range of the western Cordillera: Geological Society of America Abstracts with Programs, v. 13, p. 436.
- [A010] Davis, G.H., 1977, Characteristics of metamorphic core complexes, southern Arizona: Geological Society of America Abstracts with Programs, v. 9, p. 944.
- [A009] Davis, G.H., 1976, Experiencing structural geology: Geological Society of America Abstracts with Programs, v. 8, p. 828.
- [A008] Frost, E.G., and Davis, G.H., 1976, Mid-Tertiary, gravity induced folding and transposition in Happy Valley, Pima and Cochise Counties, Arizona: Geological Society of America Abstracts with Programs, v. 8, pp. 976-877.

- [A007] Davis, G.H., Bittson, A.G., Koshinski, G., Marrs, C.D., Menges, C.M., Phillips, M.P., Reynolds, S.J., and Varga, R.J., 1976, Kinematic analysis of an epidermal free-glide system in relation to the Early Mesozoic tectonic framework of southern Arizona: Geological Society of America Abstracts with Programs, v. 8, p. 582.
- [A006] Davis, G.H., Anderson, P., Budden, R.T., Keith, S.B., and Kiven, C.W., 1975, Origin of lineation in the Catalina-Rincon-Tortolita gneiss complex, Arizona: Geological Society of America Abstracts with Programs, v. 7, p. 602.
- [A005] Davis, G.H., 1975, Regional fracture system of the Colorado Plateau as expressed by the monoclinical-fold pattern: Geological Society of America Abstracts with Programs, p. 1046.
- [A004] Davis, G.H., Frost, E.G., and Schloderer, J.P., 1974, Scrutiny of folded gravity glide sheets in Saguaro National Monument, Arizona: Rocky Mountain Section, Geological Society of America Abstracts with Programs, v. 6, p. 439.
- [A003] Davis, G.H., 1973, Mid-Tertiary, Gravity-glide folding near Tucson, Arizona: Geological Society of America Abstracts with Programs, v. 5, p. 592.
- [A002] Davis, G.H., 1971, Structural analysis of the Caribou sulfide deposit, Bathurst, New Brunswick, Canada: American Institute of Mining and Metallurgical Engineering Annual Meeting Preprint No. 71-I-48.
- [A001] Davis, G.H., 1971. Superimposed folds in the Caribou Mine area, Bathurst, New Brunswick: Geological Society of America Abstracts with Programs, p. 539.

13 Publications: Miscellaneous

- [M30]. Davis, G.H., 2021, Personal reflections on the history of the Department of Geosciences, The University of Arizona: Available on University of Arizona's Department of Geosciences website.
- [M29] Davis, G. H., 2013, Cover-jacket endorsement of Eric Hillerman's biography entitled: "*A beacon so bright: the life of Laurence McKinley Gould*": published by Carleton College.
- [M28] Likins, Peter, and Davis, George, 2009, Best dean on the planet – a tribute in one act, *in* Ellis, Kara (ed.), Dean Toni M. Massaro – a tribute: Arizona Law Review, v. 51, No. 2, p. 61-63.
- [M27] Davis, G. H., 2008, "*Outside art: These slabs align the mind for inside discovery*:" The University of Arizona Poetry Center, July 2008 Newsletter.
- [M26] Davis, G. H., November 3, 2008, "*Geological metaphors often miss nuances: Guest opinion*:" Arizona Daily Star (Tucson), p. A11. Article arose from discussions in an undergraduate course, Geological Disasters and Society. Graduate assistant Alyson Thibodeau and students Karla Acosta, Samuel Arrowsmith, Claire Avery-Page, Bailey Cool, Stephanie Fink, Denise Garcia, Timothy Jarchow, Robert Jones, Ade Kaur, Sabine Koehleer-Curry, Songyang Luo, Peter McClintock, Christopher Moran, Nicole Peron, John Quinn, Adriana Reyes, Fernando Santos, Tatiana Stroitlyeva, and Casie Vogel contributed to this opinion.
- [M25] Davis, G.H., 1999, Integrated Earth and environmental evolution of the Southwestern United States: The Clarence A. Hall, Jr. Volume, edited by W. G. Ernst and C. A. Nelson: Geological Society of America, 502 p. GSA Today Book Review, v. 9, no. 5, p. 26.
- [M24] Davis, G.H., 1998, Coyote Mountains Core Complex: Field Trip Guidebook, University of Arizona GeoDaze Program, 1998.
- [M23] Davis, G.H., Riley, B.C.D., Woodburne, K.L., Tindall, S.E., and Krantz, R., 1997, 25th

Anniversary Geoscience Daze field trip, Huachuca Mountains: sponsored by The University of Arizona and the ARCO International Corporation, 16 p.

- [M22] Davis, G.H., 1997, From Zion to Bryce and beyond: Geosciences Newsletter, The University of Arizona: v. 3, no. 1, p. 1, 4-5.
- [M21] Talbott, M.J., Davis, G.H., and Cetone, K.L., 1988, Temporary faculty in the English and mathematics departments at the three Arizona universities: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness - final report and working papers, p.680-696.
- [M20] Davis, G.H., Talbott, M.J., and Cetone, K.L., 1988, Role of temporary faculty in undergraduate education at the three Arizona universities: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness - final report and working papers, p.673-679.
- [M19] Davis, G.H., 1988, How should universities respond to the imperative, "*Professors should spend more time teaching and less time on research!*"?: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness - final report and working papers. p.849-858.
- [M18] Davis, G.H., 1988, Survey of administrative service operations at the University of Arizona, Arizona State University, and Northern Arizona University: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness - final report and working papers, p. 1275-1288.
- [M17] Davis, G.H., 1988, Efficiency of support services within the Arizona universities: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness - final report and working papers, p. 1302-1311.
- [M16] Davis, G.H., 1988, Recruitment and retention of faculty, "an imperiled national resource": Arizona Board of Regent's task force on excellence, efficiency, and competitiveness -- final report and working papers, pp. 1386-1405.
- [M15] Davis, G.H., 1988, Arizona's system of higher education in comparison to those of other states: Arizona Board of Regent's task force on excellence, efficiency, and competitiveness: final report and working papers, pp. 934-950.
- [M14] Davis, G.H., 1987, Structural geology: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 17, pp. 508-509.
- [M13] Davis, G.H., 1987, Synclines: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 18, p. 97. Davis, G.H., 1987, Geology of the Great Basin by Bill Fiero, Max C. Fleischman Series in Great Basin Natural History, University of Nevada, Reno, 1986, 198 pp.: Journal of the Southwest, v. 29, no. 1, pp. 121-124.
- [M12] Davis, G.H., 1983, The sick fun of science: The Carleton Voice. v. 49, p. 27.
- [M11] Davis, G.H., 1982, "Diastrophism": McGraw-Hill Encyclopedia of Science and Technology, New York, v. 4, pp. 168-169.
- [M10] Davis, G.H., 1982, Fault and fault structures: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 5, pp. 323-326.
- [M09] Davis, G.H., 1982, Mountain systems: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 4, pp. 771-772.
- [M08] Davis, G.H., 1980, Structure and stratigraphic analyses of the Cordilleran Hingeline of western Utah and eastern Nevada: Technical Report to AGAT, Inc., Denver, 255 pp. and tectonic map (14 AMS sheets), seven lithotectonic charts, three regional cross sections.

- [M07] Davis, George H., 1977, Some notes and illustrations for field trips, Penrose Conference on the 'Tectonic significance of metamorphic core complexes in the North American Cordillera: Tucson, AZ, 46p.
- [M06] Davis, G.H., 1979, Science and structures: What is hidden beneath the crust and how that question relates to a liberal education occupies geologist George H. Davis '64: The College of Wooster Alumni Magazine, v. 94, no. 1, p. 13-15.
- [M05] Davis, G.H., 1977, Rift zones of the world's oceans, edited by A.P. Vinogradov and G.B. Udinstev, John Wiley, and Sons: Journal of Geological Education. v. 25, pp. 96.
- [M04] Davis, G.H., 1974, Geology Field Camp Manual: The University of Arizona, Tucson, 145 pp.
- *[M03] Davis, G.H., 1973, Geology Field Camp Manual: The University of Arizona, Tucson, 129 pp.
- [M02] Davis, G.H., 1973, Geologic inventory of a portion of the Parachute Creek, Garfield County, Colorado, in The Colony Environmental Study Part III, Chapter 14: Thorne Ecological Institute, Boulder, 18 pp.
- [M01] Davis, G.H., 1972, Geology Field Camp Manual: The University of Arizona, Tucson, 113pp.

14 Sponsored Research

- 2020-2024: Investigator on “*The Megalopolis Paleoenvironmental Project (MegaPal)*,” multifaceted palaeoenvironmental and geoarchaeological survey of the oldest radiometrically dated archaeological site in Southeast Europe and the only Paleolithic elephant butchering site known from the Balkans. Permits through the Greek Ministry of Culture and the American School of Classical Studies, Athens. European Research Council Consolidator Grant; and Deutsche Forschungsgemeinschaft. ~\$350,100.
- 2019 PI. “*Geological study of Hunters Point fold, St. Michaels, Arizona*”: Navajo Nation Minerals Department. Research and outreach proposal to Navajo Nation, written as part of my activities and opportunities as Research Associate of the Museum of Northern Arizona. 2019-2020.
- 2017-2020 Co-PI. “*Evolution of Crustal Paleofluid Flow Systems, Paradox Basin, Utah*.” W. M. Keck Foundation Science and Engineering Research Grant Program. Principal Investigator, Peter Reiners. \$1,000,000. 2017-2020. Key Personnel: Basin Modeling, George Davis, Amanda Hughes, Steve Lingrey, Robert Krantz; Paleofluid-Rock Reaction and Paleofluids: Mark Barton, Matthew Steele-MacInnis, Isabel Barton; Geochronology: Peter Reiners, Joaquin Ruiz; Modern Fluids: Jennifer McIntosh; Hydrogeologic Modeling, Mark Person.
- 2016-2020 PI. *Researching and Interpreting the Geological Story of Saguaro National Park, Rincon Mountains District, Tucson, Arizona*. Permit #. SAGU-2016-SCI-0009. No funding associated with this program, but open off-trail access as well as permission to for faculty and students in Geosciences to sample rock formations for structural petrology, geochronology, and thermochronology.
- 2011-2013 Investigator on “*Formation Processes of the Sacrificial Altar to Zeus on Mt. Lykaion, Greece, and the Bronze Age Origins of Ritual Practice*.” Co-PIs David Romano and Mary Voyatzis. \$135,000.

- 2011-2013 Hyperdynamics, Inc., *Identification and characterization of volcanic rocks and associated tectonic and depositional features from 2-D and 3-D seismic data, offshore Guinea, West Africa.* Roy Johnson, Paul Kapp, George Davis, Marc Sbar, Randy Richardson, and Joaquin Ruiz. \$450,000.
- 2006-2007 National Science Foundation #SBE-0548130, ADVANCE institutional transformation award: *Eradicating subtle discrimination in the Academy*, \$3,300,000. Co-PI. Achieved during my tenure as Executive Vice President and Provost.
- 2000-2002 National Science Foundation #EAR-0001222, *“Inverse and forward modeling of Utah system of Colorado Plateau basement-cored uplifts.”* \$161,055
- 1997-2000 Corporate sponsorship for GeoStructure Partnership, co-directed by George Davis and Peter DeCelles. Sponsors included Mobil, Conoco, BritishPetroleum (BP), BP Amoco Exploration, ExxonMobile Upstream Research Company, GeoMap, Midland Valley Exploration. Total value ~\$120,000. The support benefits graduate student field work, and computer lab infrastructure.
- 1998-2001 National Science Foundation #INT-9907204, *“The making of a high plateau: field-based determination of tectonic strain and displacement across the Altiplano of Bolivia and implications for modeling Andean plateau uplift.”* Nadine McQuarrie, Co-Principal Investigator. \$44,425.
- 1997-1999 National Science Foundation #INT-9908622. *“Basement-cored systematics: Structural study of Sierra de Haulfin and adjacent uplifts, Sierra Pampeanas, NW Argentina.”* Pilar Garcia, Co-Principal Investigator. \$29,388. National Science Foundation #EAR-9706028. Structural analysis of Laramide strike-slip faulting along the eastern margin of the Kaibab uplift, Colorado Plateau. \$85,000.
- 1996-1998 Petroleum Research Fund. ACS-PRF31248-AC2, American Chemical Society. *“Characterization of deformation-band controlled connectivity and compartmentalization in sandstone”.* \$50,000.
- 1994-1997 National Science Foundation #DUE-9451649, Computer laboratory for undergraduate education (CLUE). \$31,106, Co-Principal Investigator with Professors Barton, Butler, and Kresan. Michelle H. Wallace, Principal Investigator.
- 1994-1997 National Science Foundation #EAR-9406208, *“Use of deformation bands as a guide to regional tectonic stress patterns within the southwestern Colorado Plateau.”* \$120,000.
- 1993-1995 National Science Foundation EAR-9317802, Basic science plan for collaborative research in active tectonics. \$40,858.
- 1988-1991 Petroleum Research Fund, *“Thin-skinned deformation in the Bryce-Zion region of Southern Utah.”* \$40,000.
- 1985 SOHIO Petroleum Company, *“Fault and fracture analysis, San Rafael Swell and Bryce Canyon.”* \$12,000.
- 1982-1983 National Science Foundation #EAR 8206040. *“Finite strain analysis of core-complex tectonites.”* \$30,000. Co-Principal Investigator with R. Kligfield.
- 1981-1983 National Science Foundation Grant #EAR 8018231, *“Origin of syntectonic mid-Cenozoic conglomeratic sequences, San Pedro region of southern Arizona.”* \$34,000. Co-Principal Investigator with W.R. Dickinson.
- 1979-1980 U. S. Department of Energy, *“Uranium distribution and metamorphic core complexes.”* \$109,000. Co-Principal Investigator with P.J. Coney.

- 1979-1980 National Science Foundation Grant #INT 790-8669, U.S. Latin American Science program. “*Economic geologic-structural studies of Chumpe Anticline and Cerro de Pasco areas, Peru.*” \$22,797. Co-Principal Investigator with J.M. Guilbert.
- 1979-1980 National Science Foundation Grant #EAR7823404, “*Strain analysis of metamorphic core complexes.*” \$27,340.
- 1977-1979 National Science Foundation Grant #EAR7684167, “*Analysis of metamorphic core complexes in southern Arizona and northern Sonora.*” \$50,856. Co-Principal Investigator with T.H. Anderson.
- 1974 National Aeronautics and Space Administration Grant, “*Analysis of monoclines in Colorado Plateau.*” \$6,000.
- 1974 Arizona Foundation Grant, “*Radiometric age dating of granites in the Tortolita Mountains, Arizona.*” \$1,000.

15 Graduate Theses and Dissertations Supervised

- Pearson, O.N., 2002, Structural evolution of the central Nepal fold-thrust belt and regional tectonic and structural significance of the Ramgarh thrust: Ph. D. dissertation; 321 pp.
- Bump, A.P., 2001, Kinematics, dynamics, and mechanics of Laramide deformation, Colorado Plateau, Utah and Colorado: Ph.D. dissertation, 149 pp.
- Garcia, P., 2001, Basement-Cored Uplift Deformation in the Northern Sierras Pampeanas: Three-Dimensional Uplift Structure, Basement Deformation and Regional Analysis: Ph.D. dissertation, 169 pp.
- McQuarrie, N., 2001, The Making of a High Elevation Plateau: Insights from the Central Andean Plateau, Bolivia: Ph.D. dissertation, 255 pp.
- Tindall, S., 2000, Development of oblique-slip basement-cored uplifts: insights from the Kaibab Uplift and from physical models: Ph.D. dissertation, 261 pp.
- Swanberg, K., 1999, Analysis of spacing and orientation of fractures in Wingate Sandstone, Circle Cliffs, Colorado Plateau: MS thesis; pp.
- Ahlgren, S.A., 1999, The nucleation and evolution of Riedel shear zones as deformation bands in porous sandstone: MS thesis, 53 pp.
- Bykerk-Kauffman, A., 1990, Structural evolution of the northern Santa Catalina Mountains, Arizona: A glimpse of the pre-extension history of the Catalina Complex: Ph.D. dissertation, 97 pp.
- Lundin, E., 1987, Thrusting of the Claron Formation, Bryce Canyon region, Utah: M.S. thesis, 51 pp.
- Naruk, S.J., 1987, Kinematic significance of mylonitic foliation: Ph.D. dissertation, 92 pp.
- Janecke, S.A., 1986, Structural geology and tectonic history of the Geesman Wash Area, Santa Catalina Mountains, Arizona: M.S. thesis, 151 pp.
- Faulds, J.E., 1986, Tertiary geologic history of the Salt River Canyon region, Gila County, Arizona: M.S. thesis, 319 pp.
- Krantz, R.W., 1986, The odd-axis model: Orthorhombic fault patterns and three-dimensional strain fields: Ph.D. dissertation, 98 pp.
- Currier, D.A., 1985, Structures and microfabrics of a zone of superposed deformation, foothills fault zone, east flank of the Huachuca Mountains, southeastern Arizona: M.S. thesis, 167 pp.

- Beard, L.S., 1985, Precambrian geology of the Cottonwood Cliffs area, Mohave County, Arizona: M.S. thesis, 115 pp.
- Bykerk-Kauffman, A., 1984, Structural investigation of a transition zone between Metamorphic tectonites and their unmetamorphosed equivalents, Buehman Canyon, Arizona: M.S. thesis, 79 pp
- Martins, V.E., 1984, A microstructural study of S-C mylonites of part of the Tanque Verde Mountains, Tucson, Arizona: M.S. thesis, 52 pp.
- Naruk, S.J., 1983, Determination of strain values from mylonites in the Pinaleno Mountains, Arizona: M.S. thesis, 79 pp.
- Trevor, P.F., 1983, Geology of the Gardner Mountain Area, Happy Valley Quadrangle, Cochise County, Arizona: M.S. thesis, 130 pp.
- DiTullio, L.D., 1983, Fault rocks of the Tanque Verde Mountain decollement zone, Santa Catalina metamorphic core complex, Tucson, Arizona: M.S. thesis, 90 pp.
- Hansen, J.D., 1983, Style of deformation of upper plate rocks of the San Manuel-Camp Grant low-angle normal fault system, Black Hills, Pinal County, Arizona: M.S. thesis, 164 pp.
- Krantz, R.W., 1983, Detailed structural analysis of detachment faulting near Colossal Cave, southern Rincon Mountains, Pima County, Arizona, M.S. thesis, 58 pp.
- Crespi, J.M., 1982, The relationship of cleavage in carbonate rocks to folding and faulting in Agua Verde Wash, southeastern Arizona: Implications of volume loss: M.S. thesis, 123 pp.
- Showalter, S.R., 1982, A structural study of folds and tear faults in the Roadside Hills area, Tucson Mountains, Pima County, Arizona: M.S. thesis 82 pp.
- Kluth, C.F., 1982, The geology and mid-Mesozoic tectonics of the northern Canelo Hills, Santa Cruz County, Arizona: Ph.D. dissertation, 245 pp.
- Lingrey, S.H., 1982, Structural geology and tectonic evolution of the northeastern Rincon Mountains, Cochise and Pima Counties, Arizona: Ph.D. dissertation, 202 pp.
- Reynolds, S.J., 1982, Geology and geochronology of the South Mountain, central Arizona: Ph.D. dissertation, 220 pp.
- Benson, G.S., 1981, Geology and kinematic analysis of the Italian Trap allochthon, Redington Pass area of Pima County, Arizona: M.S. thesis, 85 pp.
- Lepry, L.A., 1981, Structural geology of the Yauli Dome region, central Andes, Peru: M.S. thesis, 100 pp.
- Ballard, S.N., 1980, Structural geologic controls at the San Luis Mines, Tayoltita, Durango, Mexico: M.S. thesis, 121 pp.
- Gardulski, A.F., 1980, A structural and petrologic analysis of a quartzite-pegmatite Tectonite, Coyote Mountains, southern Arizona: M.S. thesis, 69 pp
- Frost, E.G., 1977, Mid-Tertiary, Gravity-induced deformation in Happy Valley, Pima and Cochise Counties, Arizona: M.S. thesis, 166 pp.
- Reynolds, S.J., 1977, Styles of deformation in windows and slide blocks of the Roberts Mountain Thrust Belt, central Nevada: M.S. thesis, 166 pp.
- Suennicht, G.A., 1977, The geology of the Canada Del Oro headwaters, Santa Catalina Mountains, Arizona: M.S. thesis, 108 pp.
- Kiven, C.W., 1976, Kinematics of deformation at the southwest corner of the Monument uplift: M.S. thesis, 84 pp.
- Phillips, M.P., 1976, Geology of Tumamoc Hill, Sentinel Peak and vicinity, Pima County, Arizona: M.S. thesis, 83 pp.

- Swan, M.M., 1976, The Stockton Pass Fault: An element of the Texas lineament: M.S. thesis, 119 pp.
- Varga, R.J., 1976, Stratigraphy and superposed deformation of a Paleozoic and Mesozoic sedimentary sequence in Harquahala Mountains, Arizona: M.S. thesis, 61 pp.
- Budden, R.T., 1975, The Tortolita-Santa Clara Mountain complex: M.S. thesis, 133 pp.
- Liming, R. B., 1974, Geology and kinematic analysis of deformation in the Martinez Ranch area, Pima County, Arizona: M.S. thesis, 86p.
- Schloderer, J. P., 1974, Geology and kinematic analysis of deformation in the Redington Pass area, Pima County, Arizona: M.A. thesis, 60p.
- Brook, D.K., Jr., 1974, Relative ages of strata-form sulfide ore and wall rock determined structural analysis of the Copper Queen Mine, Yavapai County, Arizona: by M.S. thesis, 60 pp.

16 Graduate Students for whom Davis Served as Member of Research Committee

Carlos Aiken, Arlene Anderson, Steve Applebaum, Claudio Bartolini, Linda Beard, Barbara Beatty, Janice Bedford, Kenneth Bennett, Andrew Bittson, Robert Bodnar, Jeffrey Boyer, Edwin Butler, Robert Casavant, Gary Calderone, John Cederstrom, John Chakarun, Michael Clarke, Gaylord Cleveland, Christopher Clinkscales, Gregory Cole, Kurt Constenius, Dickson Cunningham, Brian Currie, Mauricio de la Fuente, Darrel Dean, Ed DeWitt, Patricia Druke, Tyler Gass, Gregory Ghidotti, Layton Gibson, Richard Gillette, Thomas Goodlin, Jeffrey Grover, Gwen Gueron (University of Rennes), Katherine Guns, Dwight Hall, Lucy Harding, Jim Hardy (Colorado School of Mines), Wayne Hauck, Paul Heller, Joe Hennessy, John Hoelle, Brian Horton, Kerry Inman, Kermit Jamison, William Jefferson, Gary Johnson, Kenneth Jones, Stan Keith, Richard Knapp, Peter Kneufer, Richard LeVeque, Scott Lewis, Daniel Lynch, Dean Lynch, George Lynn, Christopher Maars, Scot Manske, Steven Marshak, Caroline Mehl (L'Universite Paris VI), Scott Miller, Layer Mayer, William McClelland, Christopher Menges, Dorothy Merritts, Syver More, Jeffrey Morehouse, Kendra Murray, Phillip Nickerson, Phillip Pearthree, Samantha Portnoy, Lauren Reeher, Andrew Reith, Steve Reynolds, Steven Richard, Brooke Riley (University of Texas, Austin), Nancy Riggs, Ralph Rogers, Jonathan Ruddgers, Paul Ryberg, Peangta Sarthurugsta, Eberhard Schmidt, Mariel Schottenfeld, Angus Scott-Gleming, Lawrence Segerstrom, Douglas Shakel, William Sherwonit, Richard Smalley, Mariel Schottenfeld, Christine Smith, Francis Sousa, Aviva Susmann, Peter Swift, Donald Tarman, Hande Tok, Dee Trent, William Tucker, Randy Tufts, Luis Vega, Dean Warner, Paul Welber, Roger Weller, Clarence Wendt, John White, William Wilkinson, Charles Winker, Keith Woodburne, Ann Wortman, Steven Wust, Jeffrey Wynn, Kenneth Yeats, David Young, Elizabeth Youngblood Anthony, John Zumberge.

17 Undergraduate Research Advisees

Warren Allen, Aaron Alke, Yaser Al-Misrea, Greg Belinski, Chaudoir, K., David Boardman (Carleton College), Shari Christofferson, Gabriel Cisneros, Erin Collin Scott Grasse, Jessica Graybeal, Alan Gregorski, Tanner Grose, Justin Hardin, Raymond Leonard, William Liebe (College of Wooster), Phillip McFarland, J. J. Munoz, Arthur Osakwe, Alex Pretika, David Rodgers (Carleton College), Michael Rose, Eric Sahr, Amos Sander, Joanna Schafer (College of Wooster), Angela Smith, Amanda Tack, Triffon Tatarin, Danielle Vanderhorst, Robert Varga, Jean

Villena-Celis, Nick Weinbern (Carleton College), Wesley Wilkins, Michael Hanna-Wilson, Christopher Young.

18 Administrative Leadership and Service: University of Arizona

System-Wide

Chair of Coordinating Committee for the University of Arizona College of Medicine Phoenix Program, reporting to Governor's Commission on Medical Education and Research. Charge: to help coordinate planning and creation of the first medical school in Phoenix, Arizona. (2004-2007)

Chief Academic Officers Policy Group (2000-2007)

Regents' Committee on Strategic Planning (1989-1990)

Regent's Committee on Resources (1989-1990)

Regents' Committee on Business Affairs (1989-1990)

Executive on Loan to Arizona Board of Regents' Task Force on Excellence, Efficiency, and Competitiveness of Arizona's Universities (1987-1988)

Arizona Board of Regents' Tri-University Cost Study Task Force. Charge: to enhance preparedness of Arizona universities for higher education responsibilities in the 21st century. (1986-1987)

University-Wide

Member, Steering Committee for Arizona Public Media, The University of Arizona (2014-2015)

Member, Board of Advisors, "*UofA Presents*", the University of Arizona's performing arts program (2013-present)

Member, Steering Committee for Center for Mediterranean Archaeology and the Environment (2013-present)

Chair, Search Committee for Dean of the James E. Rogers College of Law (UofA) (2012-2013)

Co-Leader with Tom Swetnam (Director of Laboratory of Tree Rings Research) on proposal for UA Center for Mediterranean Archaeology and the Environment; member of Steering Committee (2011-2013)

Oversight responsibilities for Human Resources, Student Affairs, and UA Presents (Performing Arts), with larger role in Information Technology & Computing. (2006-2007)

Chair, Health Sciences Academic Council (Deans of Medicine, Nursing, Pharmacy, and Public Health) (2005-2007)

Member, Information Technology Policy Group (2003-2007)

Member, Shared Governance Committee (2003-2007)

Chair, Academic Investments & Priorities Working Group (2003-2007)

University Council (2003-2007)

President's Cabinet (2000-2007)

Finance Committee (2000-2007)

Chair, Academic Council (deans of 20 colleges: Agriculture and Life

Sciences, Architecture and Landscape Architecture; Continuing Education; Education; Eller College of Management; Engineering; Fine Arts; Graduate College; Honors College;

Humanities; Law; Libraries; Medicine; Nursing; Optical Science; Pharmacy; Public Health; Science; Social and Behavioral Sciences; University of Arizona South) (2000-2007)
Member, Investment Committee, University of Arizona Foundation (2000-2006)
Member, University Relations Committee, University of Arizona Foundation (2000-2007)
Member of the Board, University of Arizona Foundation (2000-2007)
Member, Space Committee (2000-2007)
Co-Chair, University Compensation Advisory Team (2000-2003)
Member, Campus Advisory Committee (2000-2007)
Member, Faculty Senate (2000-2007)
Chair, Provost's Management Group (2000-2007)
Member, Strategic Planning and Budget Advisory Committee (SPBAC) (2000-2007)
Chair, Search Committee for Dean of the College of Law (1998-1990)
Member, Institutional Team for the American Council on Education Forum on Institutional Transformation, Washington, D.C. (1998)
Coordinator, Faculty Aces Program (1997-1998)
Chair, Distinguished University Professor Selection Committee (1997-1999)
Member, University Fees Committee (1997-1998)
Member, Committee on Developing University Post-Tenure Review Guidelines (1997-1999)
Initiated and coordinated the University Speaker Series entitled "Building Academic Community" (1996-2000)
Member, Institutional Team for The Pew Charitable Trusts "Return to St. Louis" meeting on the "State of the Enterprise" (1996)
Coordinator, Faculty Fellows Program (1996-2000)
Member, ACE Project Team on Leadership and Institutional Transformation (1996-1998)
Invited Participant, Pew Roundtables: ACE/Kellogg Project on Leadership and Institutional Transformation (1995-1996)
Coordinator, Special External Review of University-wide Grant/Contract Policies Practices (1995)
Chair, Search Committee for Dean of the College of Law (1994-1995)
Member, Provost's Academic Planning Group (1994)
Chair, Search Committee for Director of "UofA Presents" (University performing arts program) (1993-1994)
Member, Search Committee for Vice Provost (1993-1994)
Member, Regent's Professors Selection Committee (1993-1995)
Director of North Central Association 10-year Accreditation Self-Evaluation of University of Arizona (1989-1990)
Vice President for Business Affairs (Acting), responsible for Finance and Investments, Audit Controller's Office, Payroll, Accounts Receivable/Payable, Physical Resources, Design and Construction, Parking, Personnel, Police, Purchasing, Payroll, Printing (1989-1990)
Vice Provost for Academic Affairs, with primary focus on Faculty Recruitment, Promotion and Tenure, Sabbatical Leaves, Academic Budgets, and Faculty Grievances (1986-1990)
Member, President's Council (1986-1990)
Member, Resource Council (1986-1990)
Member, Provost's Council (1986-1990)
Chair, Nominating Committee for Regents' Professors (1989-1990)
Chair, Committee on Competitive Fellowships, Scholarships, and Awards for Faculty and Students (1988-1990)

Chair, Committee on Career Planning and Job Placement (1989-1990)
Chair, Human Resources Committee (1986-1989) Member, Working Group on Women and Minorities (1986-1990)
Chair, Provost's Author Support Fund Committee (1986-1990)
Coordinator for 1984 Distinguished Riecker Lecture (invited and hosted Dr. Walter Alvarez) (1984)
Chair, Long-Range Planning Committee of the Graduate Council. (1980-1983)
Member, Graduate Council (1978-1985)

College-Wide

Member, Department Head Selection Committee (1997)
Faculty Speaker on Excellence, Honors Convocation, Faculty of Science (1993)
Member, Executive Committee, Faculty of Science (1985-1986)
Member, Dean Search Committee, College of Earth Sciences (1972)

Some Examples of Departmental Service

Member, Department Head Advisory Board (2018-present)
Chair, Promotion and Tenure Committee (2017)
Member, Planning Committee, Celebration of the Lives of Bill and Jackie Dickinson (2015)
Chair, Academic Program Review, Department of Geosciences, University of Arizona (2013-2014)
Chair, Undergraduate Policy Committee, Geosciences, UofA (2012-2013)
Member, Future Directions Committee (1999)
Chair, Tectonics Search Committee (1998-1999)
Co-Leader of the GeoStructure Partnership Program with corporate sponsors (1998-2000)
Chair, Promotion and Tenure Committee (1997-1998)
Member, Department Head's Advisory Board (1996-2000)
Co-Coordinator of special tribute to L. M Gould and G. G. Simpson (1993)
Head, Committee on Geosciences Education (1993)
Member, Planning Committee for Gould-Simpson Science Building (1982-1985)
Head, Department of Geosciences (1982-1975)
Co-Leader, Department of Geosciences "Centennial" Campaign (1984-1985)

19 Administrative Leadership: The University of Vermont

Regional and National

National Association of State Universities and Land Grant Colleges
Council of Presidents, New England Land Grant Universities

Statewide

Vermont Higher Education Council (All Colleges And Universities)

Vermont Council (Statewide Advocate Organization For UVM
Vermont Initiative (University Relations Strategic Planning Group)
Business Roundtable of Vermont
Governor's Budget Hearings and Legislative Budget Hearings
City of Burlington
Greater Burlington Industrial Corporation Board

University

Board of Trustees
President's Council
Academic Council
Faculty Senate
President's Student Advisory Council
Staff Council
University Planning
Finance Committee
President's Strategic Planning Council
NCAA Self-Study
University Race/Gender/Affirmative Action Leadership
President's Panel on Cultural Diversity
President's Commission on the Status of Women
Principal Speaker on Respect Day and Dr. Martin Luther King, Jr. Day
Affirmative Action "Options" Initiative
President's Human Resources Task Force
New Planning Initiative on Diversity
Groundwork for Faculty/Student Exchange Program with Traditionally Black
Universities (Lincoln, Wilberforce, Delaware State)
University Cultural Affairs
Lane Cultural Events Series
Fleming Museum
Flynn Theatre
University Student Outreach
Parent and Student Orientations
New Faculty Orientations
Greek Leadership
Boulder Society (Honorary Leadership/Service Organization)
Trek (One-Week Out-of-Door Orientation for First-Year Students)
Service Projects with Students
Athletic Events
Evening Lecture/Discussion Forums on AIDS and Alcohol
University Development, and Alumni Relations
Bicentennial Capital Campaign (\$100 Million goal)
Ira Allen Society
Meetings with Alumni Groups (Connecticut, Massachusetts, Vermont, New York, Delaware,
New Jersey, Florida, etc.)

Bicentennial Celebration
University Academic Events and Ceremony
Honors Convocations and Commencement