

George H. Davis — Curriculum Vita

Contents

1	Personal.....	1
2	Education, Degrees, and Theses.....	1
3	Appointments.....	2
4	Early Geologic Field Experience.....	2
5	Current Responsibilities as Faculty Member.....	2
6	Current Research Projects.....	3
7	Courses/Subjects Taught in Past Ten Years.....	4
8	Honors, Awards, and Special Recognition or Service.....	4
9	Professional Services and Activities.....	6
10	Venues of Invited Lecture Presentations.....	14
11	Publications: Books	14
12	Publications: Peer-Reviewed Articles and Maps.....	14
13	Publications: Abstracts.....	20
14	Publications: Miscellaneous.....	27
15	Sponsored Research.....	29
16	Graduate Theses and Dissertations Supervised.....	31
17	Graduate Students for whom Davis Served as Research Committee Member.....	33
18	Undergraduate Research Advisees.....	33
19	Administrative Leadership and Service: The University of Arizona.....	34
20	Administrative Service: The University of Vermont.....	36

1 Personal

George H. Davis
Regents Professor Emeritus & Provost Emeritus
Department of Geosciences, The University of Arizona
326 Gould-Simpson Building
Tucson, Arizona 85721
(520) 349-2622 (cell)
gdavis@email.arizona.edu

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)
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-present)
Research Associate, Museum of Northern Arizona (Nov 2018-Nov 2021)

4 Early Geologic Field Experience

Doctoral field work in northern New Brunswick, Canada (summers, 1967-69)
Field Geologist, Hanna Mining Company, northern Michigan (summer, 1966)
Masters field work in northwestern Guatemala (summer, 1965)
Field 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 Current Responsibilities as Faculty Member

49% appointment. I teach two courses each spring term, including undergraduate structural geology. Year-around I carry out research, writing, fieldwork and broad-based university and national service/leadership. Fundamental in research is formulating the problem, designing the approach, carrying out discovery, and communicating the science, both to the geoscience community and the broader public.

6 Current Research Projects

Overall research approach is **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. Research directions also include geoarchaeology. An emerging research direction is cognitive dimensions of effectiveness of visual metaphor in teaching and learning structural geology. Regional tectonic settings of concentration are Basin and Range and Colorado Plateau provinces of the American Southwest, and the Peloponnesos of Greece.

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

Paradox Basin, Utah: study of faults and fault-rock deformation crossing the salt-cored anticlines of the Paradox basin in order to evaluate the origin and significance of these compartmental transverse 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 exceeding well exposed structural system along the northeastern margin of the Defiance Uplift. Opportunities include placing timing constraints on basement uplift and faulting. In cooperation with the Minerals Department of the Navajo Nation.

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. Mt. Lykaion Excavation and Survey Project supported by the American School of Classical Studies, Athens, and the Greek Archaeological Service.

Megalopolis, Greece: tectonic basin analysis in order 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.

Cognitive-science and learning: testing learning and retention associated with use of visual metaphor in teaching abstract scientific concepts in science, especially in relation to 3D visualization and structural geology. Co-Principal Investigator on NSF proposal.

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

7 Courses/Subjects Taught in Past Ten Years

Geological Disasters and Society
Active Tectonics
Freshman Colloquia (Honors College)
Undergraduate Structural Geology
Archaeology and Geology of Ancient Greece
Colorado Plateau Geology and Natural History
Geological Mapping
Colorado Plateau Tectonic Architecture

8 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)

9 Professional and University Services and Activities

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.

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, Thermopylae, 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)
- 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, Asheville, 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 Maxmillian 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 (2011-2012)
- 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: *“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: Poet Laureate (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, 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-Treasure, 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)

10 Venues of 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).

11 Publications: Books

- [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.

12 Publications: Peer-Reviewed Articles and Maps

- [P084] Davis, G. H., **in review**, 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.
- [P083] Davis, G. H., **in review**, 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.

- [P082] Davis, G. H., Gehrels, G. E., and Spencer, J. E., 2019, Field-trip guide to the Catalina-Rincon metamorphic core complex, Tucson, Arizona: GSA 2019 Annual meeting, Phoenix, Arizona, **in press**.
- [P081] 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>
- [P080] 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.
- [P079] Davis, G. H., 2018, Stylolitic limestone, the stone of choice for ancient sanctuaries and temples, southwestern Peloponnese, Greece: Geoarchaeology, v. 33, pp. 708-722.
- [P078] Davis, G. H., 2018, Geologic and geoarchaeological mapping of the Sanctuary of Zeus, Mount Lykiaon, Peloponnesus, Greece: Geological Society of America Digital Map and Chart Series 23, xxp., doi:10.1130/2018.DMCH023.
<http://www.geosociety.org/maps/2018-DMCH023/?WebsiteKey=a5b62ffc-18e7-49eb-b75a-db5406bdc7ea>
- [P077] 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.
- [P076] 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.
- [P075] 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.
- [P074] 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.
- [P073] 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.
- [P072] 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.
- [P071] Davis, G. H., 2014, Quasi-flexural folding of pseudo-bedding: Geological Society of America Bulletin, v. 126, p. 680-701.
- [P070] 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
- [P069] Davis, G. H., 2013, The Geological Society of London celebrates GSA's 125th anniversary: GSA Today, v. 23, no. 10, p. 16-17. ^{[L][L][L]}_{[SEP][SEP][SEP]}

- [P068] 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.
- [P067] 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.
- [P066] 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.
- [P065] 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.
- [P064] Davis, G.H., 2009, *Geology of the Sanctuary of Zeus, Mount Lykaion, southern Peloponessos, Greece: Journal of Virtual Explorer*, v. 23, Electronic Edition, ISSN 1441-8142, v. 33, 58p.
- [P063] 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.
- [P062] 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.
- [P061] 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>.
- [P060] 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.
- [P059] 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.
- [P058] 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.
- [P057] 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.
- [P056] 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.

- [P055] 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.
- [P054] 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.
- [P053] 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.
- [P052] Davis, G.H., Bump, A, Garcia, P., and Ahlgren, S., 2000, Conjugate Riedel shear zones: *Journal of Structural Geology*, v. 22, p. 169-190.
- [P051] Bump, A., Davis, G.H., Bilinski, G.E., Swiders, A.E., and Kidder, S., 2000, Progressive Development of brittle and semi-brittle structures on the Monument Uplift, Utah, and their implications for regional strain: *Geological Society of America Abstracts with Programs*, v. 32, p. A-4.
- [P050] 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.
- [P049] 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.
- [P048] 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.
- [P047] 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.
- [P046] Davis, G.H., 1998, Fault-fin landscape: *Geological Magazine*, v. 135 (2), p. 283-286.
- [P045] 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.
- [P044] 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.
- [P043] 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.
- [P042] Davis, G.H., 1995, The Active Tectonics planning initiative: *GSA Today*, v. 5, no. 7, p. 148-149.

- [P041] 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.
- [P040] 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 S.L. Wust: Geology, v. 15, no. 9, pp. 872-873.
- [P039] Davis, G.H., 1987, A shear-zone model for the structural evolution of metamorphic core complexes in southeastern Arizona, *in* Coward, M.P., Dewey, J.F., and Hancock, P.L. (eds.), Continental Extensional Tectonics: Geological Society of London Special Publication No. 28, p. 247-266.
- [P038] 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.
- [P037] 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.
- [P036] Davis, G.H., 1987, Saguaro National Monument Arizona: Outstanding display of the structural characteristics of metamorphic core complexes: Geological Society of America Centennial Field Guide -- Cordilleran Section, pp. 35-40.
- [P035] Naruk, S.J., Bykerk-Kauffman, A., Currie-Lewis, D., Davis, G.H., Faulds, J.E., and Lewis, S.W., 1987, Kink folding in an extended terrain: Tortilla Mountains, southern Arizona: A reply to E.R. Verbeck: Geology, v. 15, no.9, pp. 871-872.
- [P034] Davis, G.H., 1986, A tribute to Evans B. Mayo: Arizona Geological Society Digest, v. 15. Davis, G.H., 1986, Gould-Simpson Building dedication speech honoring two distinguished scientists -Lawrence McKinley Gould and George Gaylord Simpson: Arizona Bureau of Geology and Mineral Technology Fieldnotes, v. 16, pp. 8-9.
- [P033] Naruk, S. J., Bykerk-Kauffman, A., Currier-Lewis, D., Davis, G.H., Faulds, J.E., and Lewis, S.W., 1986, Kink folding in an extended terrane: Tortilla Mountains, southern Arizona, Geology, v. 14, no. 12, pp. 1012-1015.
- [P032] McClay, K.R., Norton, M.G., Coney, P.J., and Davis, G.H., 1986, Collapse of the Caledonian orogen and the Old Red Sandstone: Nature, v. 323, no. 6084, pp. 147-149.
- [P031] Kligfield, R., Crespi, J., Naruk, S.J., and Davis, G.H., 1984, Displacement and strain patterns of extensional orogens: A reply to J.M. Bartley: Tectonics, v. 4, no. 6, pp. 587-589.
- [P030] Davis, G.H., 1983, Deformational History of the Caribou strata-bound sulfide deposit, Bathurst, New Brunswick, Canada, *in* Lacy, W.C. (eds.) Mining Geology: Benchmark Papers in Geology, v. 69, pp. 56-65.
- [P029] Davis, G.H., 1983, Shear-zone model for the origin of metamorphic core complexes: Geology, v. 11, pp. 342-347.
- [P028] Kligfield, R., Crespi, J., Naruk, S.J., and Davis, G.H., 1984, Displacement and strain patterns of and Hardy, J., 1981, The Eagle Pass detachment southeastern Arizona: Product of mid-Miocene listric normal faulting in the southern Basin and Range: Geological Society of America Bulletin, Part I, v. 92, p. 749-762.

- [P027] Davis, G.H., 1981, Regional strain of the superposed deformations in southeastern Arizona and the eastern Great Basin *in* Dickinson, W.R., and Payne, W.D. (eds.), *Relation of tectonics to ore deposits in the southern Cordillera: Arizona Geological Society Digest*, v. 14, pp. 155-172.
- [P026] Davis, G.H., Gardulski, A.F., and Anderson, T.H., 1981, Structural and structural-petrological characteristics of some metamorphic core complex terranes in southern Arizona and southern Sonora, *in* Ortlieb, L., and Roldan, J.Q. (eds.), *Geology of northwestern Mexico and southern Arizona: Instituto de Geologia, U.N.A.M., Hermosillo, Sonora*, pp. 323-365.
- [P025] Davis, G.H., Showalter, S.R., Benson, G.S., McCallmont, L.C., and Cropp, F.W., 1981, *Guide to the geology of the Salt River Canyon, Arizona: Arizona Geological Society Digest*, v. 13, pp. 48-97.
- [P024] Davis, G.H., 1980, Structural characteristics of metamorphic core complexes, *in* Coney, P. J., and Reynolds, S. J., (eds.), *Cordilleran metamorphic core complexes and their uranium favorability: U.S. Department of Energy Open-File Report GJBX-258 (80)*, 627p.
- [P023] Davis, G.H., 1980, Structural characteristics of metamorphic core complexes, southern Arizona, *in* Crittenden, M.D., Jr., Coney, P.J., and Davis, G.H. (eds): *Geological Society of America Memoir* 153, pp. 35-77.
- [P022] Davis, G.H., 1980, Metamorphic core complexes -- structural characteristics, kinematic expression and relations to Mid-Miocene listric faulting, Chapter 3, *in* Coney, P.J., and Reynolds, S.J. (eds.), *Cordilleran metamorphic core complexes and their uranium distribution: Department of Energy Special Publication*, pp. 119-159.
- [P021] Davis, G. H., and Hardy, Jr., J. J., 1980, Mid-Miocene listric normal faulting, *in* Coney, P.J., and Reynolds, S.J. (eds.), *Cordilleran metamorphic core complexes and their uranium distribution: Department of Energy Special Publication*, pp. 159-186.
- [P020] Davis, G.H., and Cropp, F.W., 1980, Why pursue science at a quality independent liberal arts college?: *Liberal Education*, v. 66, pp. 394-401.
- [P019] Davis, G.H., Phillips, M.P., Reynolds, S.J., and Varga, R.J., 1979, Origin and provenance of some exotic blocks in lower Mesozoic red-bed basin deposits, southern Arizona: *Geological Society of America Bulletin*, v. 90, p. 376-384.
- [P018] Davis, G.H. and Coney, P.J., 1979, Geological development of metamorphic core complexes: *Geology*, v. 7, pp. 120-124.
- [P017] Davis, G.H., 1979, Laramide folding and faulting in southeastern Arizona: *American Journal of Science*, v. 279, pp. 543-569.
- [P016] Davis, G.H., 1978, Experiencing structural geology: *Journal of Geological Education*, v. 26, p. 52-59.
- [P015] Davis, G.H., 1978, The monocline fold pattern of the Colorado Plateau, *in* Matthews, V., ed., *Laramide folding associated with basement block faulting in the western United States: Geological Society of America Memoir* 151, pp. 215-233.
- [P014] Davis, G.H., 1978, *Tectonics of the Huachuca Mountains: New Mexico Geological Society Field Guide to Southeastern Arizona*, pp. 57-60.
- [P013] Davis, G.H., 1978, Road log from Tucson to Colossal Cave and Saguaro National Monument: *New Mexico Geological Society Field Guide to Southeastern Arizona*, pp. 78-87.
- [P012] Davis, G.H., 1977, Gravity-induced folding off a gneiss dome complex, Rincon Mountains, Arizona: A reply: *Geological Society of America Bulletin*, v. 88, pp. 1212-1216.

- [P011] Crittenden, M.D. Jr., Coney, P. J., and Davis, G.H., 1977, Tectonic significance of metamorphic core complexes in the North American Cordillera: *Geology*, v. 6, pp. 79-80.
- [P010] Mayo, E.B., and Davis, G.H., 1976, Origin of the Red Hills-Piedmontite Hills Uplift: *Arizona Geological Digest*, v. 10, pp. 103-131.
- [P009] Davis, G.H., and Frost, E.G., 1976, Internal structure and mechanism of emplacement of a small gravity-glide sheet, Saguaro National Monument (East), Tucson Arizona: *Arizona Geological Digest*, v. 10, pp. 287-304.
- [P008] Davis, G.H., and Kiven, C.W., 1975, Structure map of folds in Phanerozoic rocks, Colorado Plateau tectonic province of Arizona: Arizona Oil and Gas Conservation Commission, Phoenix, Arizona.
- [P007] Davis, G.H., 1975, Gravity-induced folding off a gneiss dome complex, Rincon Mountains, Arizona: *Geological Society of America Bulletin*, v. 86, pp. 979-990.
- [P006] Davis, G.H., and Kiven, C.W., 1975, Structure map of folds in Phanerozoic rocks, Colorado Plateau tectonic province of Arizona: Arizona Oil and Gas Conservation Commission, Phoenix, Arizona.
- [P005] Davis, G.H., 1975, Tectonic analysis of folds in the Colorado Plateau of Arizona: Office of Arid Lands Studies Bulletin 9, Tucson, Arizona, 68 pp. in addition to a map of major folds in northern Arizona.
- [P004] Davis, G.H., Eliopoulos, G.J., Frost, E.G., Goodmundson, R.C., Knapp, R.B., Liming, R.B., Swan, M.M., and Wynn, J.C., 1974, Recumbent folds -- focus of an investigative workshop in tectonics: *Journal of Geological Education*, v. 22, pp. 204-208.
- [P003] Davis, G.H., 1973, Deformational history of the Caribou stratabound sulfide deposits, Bathurst, New Brunswick, Canada: A reply: *Economic Geology*, v. 68, pp. 572-577.
- [P002] Davis, G.H., 1972, Deformational history of the Caribou stratabound sulfide deposit. Bathurst, New Brunswick, Canada: *Economic Geology*, v. 67, pp. 634-655.
- [P001] Anderson, T. H., Boyd, A., Davis, G.H., 1967, Geologic map of La Democracia Quadrangle, Guatemala, Lat. 15° 00' to 15° 40', Long. 91° 45' to 92° 00': Instituto Geografico Nacional, Guatemala, Central America, scale 1:50,000.

13 Publications: Abstracts

- [A096] Davis, G. H., and Reynolds, Stephen J., 2019, Some Arizona examples of the vertical integration of fault zone behavior: Geological Society of America Abstracts with Programs.
- [A095] He, John, Davis, George H., and Swann, Don, 2019, Core complexes for non-geologists: Strategies and designs for visualizing complex, three-dimensional geologic concepts: Geological Society of America Abstracts with Programs.
- [A094] Reeher, Lauren, Davis, George, Hughes, Amanda, Streeter, David, and Chad, Julius, 2019, Mechanical characterization and failure development within Jurassic sandstones in proximity to salt structures, Paradox Basin, southern Utah: Geological Society of America Abstracts with Programs.
- [A093] Reeher, Lauren, Hughes, Amanda, and Davis, George H., 2019, Laramide Deformation on the Colorado Plateau analyzed through integrated structural techniques: Geological Society of America Abstracts with Programs.
- [A092] Reiners, Peter W., Barton, Isabel, Barton, Mark D., Davis, George H., Kirk, Jason, Krantz, Robert W., Hughes, Amanda, Lingrey, Steve, McIntosh, Jennifer, Person, Mark, and

- Thorson, Jon, 2019, Evolution of the Paradox Basin subsurface fluid-flow system and paleofluid-rock reaction products: Geological Society of America Abstracts with Programs.
- [A091] Hughes, Amanda N., Reeher, Lauren, Krantz, Robert W., Lingrey, Steve, Davis, George, and Person, Mark, 2019, Stress field variability around salt structures through a comparison of observed natural fracture sets and mechanical models, Paradox Basin, Utah: Geological Society of America Abstracts with Programs.
- [A090] King, C. C., Pearl, J. K., Swann, D. E., Eastoe, C., Filippone, C. and Davis, G. H., 2018, Determining source water of critical springs and tinajas in Saguro National Park [abstract]: AGU.
- A089] Davis, G. H., 2017, Late Bronze Age through Classical-Period utilization of geomorphology, stratigraphy, and geologic structure, Sanctuary of Zeus, Mt. Lykaion, Peloponnese, Greece: Geological Society of America Abstracts with Programs, Paper 144-10, v. 49, no. 6. Doi: 10.1130/abs/2017AM-295084.
- [A088] Davis, G. H., 2015, Intensive fold flattening during quasi-flexural folding of pseudo-beds: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 718.
- [A087] Davis, G. H., Chan, M., Clary, R. M., Krantz, R. W., Lyttle, P. T., Nickless, E., O'Connell, S., Price, J. G., Stephens, D. B., and Thorleifson, L. H., 2015, Purpose and overview of GSA's bicentenary celebration of the publication in 1815 of William Smith's map 'A Delineation of the Strata of England and Wales, with Part of Scotland', the first geological map of an entire country: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 23.
- [A086] Anderson, H., Davis, G. H., and Davis, T., 2015, 3D structural modeling of the East Kaibab monocline in northern Arizona: AAPG Datapages/Search and Discovery Article #90216, 2015 AAPG Annual Convention and Exhibition, Denver, CO, May 31-June 3, 2015.
- [A085] Davis, G. H., 2014, 'Coming to grips' with Cordilleran metamorphic core complexes: Geological Society of America Abstracts with Programs, v. 46, no. 5 p. 5.
- [A084] Davis, G. H., 2013, Visual metaphors for teaching 3D geological thinking and interpretation, in Krantz, R., and Boonstra, D., (eds.), 3D Structural Geologic Interpretation: Earth, Mind, and Machine: AAPG Hedberg Research Conference, Reno, Nevada, June 23-27, 2013. AAPG Hedberg Research Conference.
- [A083] Davis, G. H., 2013, Structural Geology, in Krantz, R., and Boonstra, D., (eds.), 3D Structural Geologic Interpretation: Earth, Mind, and Machine: AAPG Hedberg Research Conference, Reno, Nevada, June 23-27, 2013. AAPG Hedberg Research Conference.
- [A082] Davis, G. H., Gibbs, A., and Romano, D. G., 2013, Another advantage of 3D model building: communicating geological research results to non-geologist colleagues and project directors, in Krantz, R., and Boonstra, D., (eds.), 3D Structural Geologic Interpretation: Earth, Mind, and Machine: AAPG Hedberg Research Conference, Reno, Nevada, June 23-27, 2013. AAPG Hedberg Research Conference
- [A081] Davis, G. H., 2012, Quasi-flexural folding of pseudo-bedding: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 539.
- [A080] Davis, G. H., and Dendas, M., 2012, WEB-watching of natural geo-phenomena: Geological Society of America Abstracts with Programs, North-Central Meeting, Dayton, Ohio, Session 20, Geoscience student engagement: innovations in labs, activities, field trips, and in-class pedagogy for K-16 classrooms.

- [A079] Moccia, A., Similox-Tohon, D., Clelland, S., and Davis, G. H., 2012, 3D structural model building and fold construction using dip isogon construction method: the Mt. Lykaion (Greece) of Zeus case study: The Geological Society, Tectonics Studies Group Annual Meeting.
- [A078] Romano, I. B., Romano, D. G., and Davis, G. H., 2012, Monument bases from the Sanctuary of Zeus on Mt. Lykaion: methodology, typology, geology, use, and significance: Association for the Study of Marble & other stones in antiquity (ASMOSIA), X International Conference, Rome.
- [A077] Similox-Tohon, D., Clelland, S., Moccia, A., and Davis, G. H., 2011, 3D structural model building – the Mt. Lykaion (Greece) Sanctuary of Zeus case study: Geological Society of America Abstracts with Programs, v. 43, no. 5, p. 302.
- [A076] Davis, G. H., 2011, Localization control for the Catalina detachment fault, Rincon Mountains metamorphic core complex, Tucson, Arizona, USA: Geological Society of America Program with Abstracts, Penrose Conference on Deformation Localization in Rocks: New Advances, Cadeques, Spain, pp. 45-46.
- [A075] Davis, G. H., 2010, Geoarchaeology of the Sanctuary of Zeus, Mt. Lykaion, Peloponeesos, Greece: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 29.
- [A074] Similox-Tohon, D., Sherrenberg, A., Clelland, S. and Davis, G. H., 2010, 3D structural modeling – the Mt. Lykaion (Greece) Sanctuary of Zeus case study, *in* Theme V, Structural geology: styles and processes, complex structural modeling in honor of Ted Apotria (SEPM): American Association of Petroleum Geologists 2010 Annual Convention and Exhibition, Poster Exhibition Hall.
- [A073] Davis, G. H., Reifschneider, M. A., Borraccini, F., and Similox-Tohon, D., 2009, 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: Part 1, Mapping: Geological Society of America Abstracts with Programs, v. 41, no. 7, abstract 54-12, p. 167-168.
- [A072] Similox-Tohon, D., Scherrenberg, A., Clelland, S., and Davis, G. H., 2009, 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: Part 2, Modeling: Geological Society of America Abstracts with Programs, v. 41, no. 7, abstract 54-13, p. 168.
- [A071] Davis, G. H., 2009, Fold mechanisms and disharmony in ‘Zeus’ anticline, Mt. Lykaion, Peloponessos, Greece: Geological Society of America Abstracts with Programs, 2009, Paper 223-4, p. 569.
- [A070] Davis, G.H., 2008, Peculiar active-tectonic landscape within the Sanctuary of Zeus at Mt. Lykaion (Peloponnese, Greece): Eos, Transactions of the American Geophysical Union, Fall Meeting Supplement, v. 89, no. 53, Abstract T21B-1944.
- [A069] Davis, G.H., 2008, Davis, G. 2008. Paradigm Shift in Discerning “Sense-of-Shear” Illustrates Strengthening Science Through Partnership Across Borders. *in* (ed.) De Paor, D., *Making Sense of Shear*, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, Volume 31, Paper 6. DOI: <http://virtualexplorer.com.au/journal/2008/31/davis>.
- [A068] Davis, G.H., and Bump, A., 2006, Tectono-structural evolution of the Colorado Plateau:

- Backbone of the Americas. A global meeting presentsd by the Association Geologica Argentina and The Geological Society of America: Geological Society of America Abstracts with Programs, No. 2, p. 80.
- [A067] Davis, G.H., Mehl, C., Jolivet, L., and Lacombe, O., 2005, Outcrop-scale strain localization and boudinage in Basin and Range and Cycladic core complexes convey insights into crustal-scale development of detachment tectonics: EOS, Transactions of the American Geophysical Union, 2005 Fall Meeting, American Geophysical Union, invited paper, T24C-01.
- [A066] Bump, A. and Davis, G.H., 2005, Laramide deformation of the Colorado Plateau and the Evolution of ancient fault arrays: Geological Society of America Abstracts with Programs.
- [A065] Garcia, P., and Davis, G.H., 2005, Evidence for Folding of Granite, Sierra De Haulfin Basement-Cored Uplift, Northwest Argentina: poster. Beijing Conference, China.
- [A064] Davis, G.H., and Reynolds, S.J., 2004, Active tectonics as integrative capstone in teaching Structural geology: Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 348.
- [A063] Bump, A., and Davis, G.H., 2002, Forward and inverse trishear modeling of the San Rafael and Waterpocket monoclines, Colorado Plateau, Utah: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 40.
- [A062] Tindall, S.E. and Davis, G.H., 2002, Influence of deformation band shear zones on joint Development: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 232.
- [A061] Tindall, S.E. and Davis, G.H., 2002, Influence of deformation band shear zones on joint development: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 372.
- [A060] Stockli, D.F., Bump, A., Davis, G.H., and Farley, K.A., 2002, Preliminary (U-th)/HE thermochronological constraints on timing and magnitude of Tertiary denudation of the Colorado Plateau, Utah: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 321
- [A059] Bump, A., Davis, G.H., Bilinski, G.E., Swiders, A.E., and Kidder, S., 2000, Progressive development of brittle and semi-brittle structures on the Monument Uplift, Utah, and their implications for regional strain: Geological Society of America Abstracts with Programs, v.32, p. A-4.
- [A058] Davis, G.H., 1999, Colorado Plateau intraplate deformation as expressed by systems of deformation bands: Geological Society of America Abstracts with Programs, v. 31, no. 7, p. A-238.
- [A057] Swanberg, K.A., and Davis, G.H., 1999, Analysis of spacing and orientation of jointing in Wingate Sandstone, Circle Cliffs, Colorado Plateau: Geological Society of America Abstracts with Programs, v. 31, no. 4., p. A58.
- [A056] Tindall, S.E., and Davis, G.H., 1998, Partitioning of faulting within a reverse, right-lateral shear zone along the East Kaibab monocline, Colorado Plateau, Utah: Geological Society of America Abstracts with Programs, v. 30, no. 6, p. 38.
- [A055] Christofferson, S., and Davis, G.H., 1997, Antithetic faulting associated with major strike-slip faulting along the East Kaibab monocline, Candyland, Utah: EOS, Transactions of the American Geophysical Union, 1997 Fall Meeting, v. 78, no. 46, p. F701-702.
- [A054] Davis, G.H., and Beck, S.L., 1997, An eclectic active tectonics field trip to southern California: Geological Society of America Abstracts with Programs, v. 29, no. 6, p. 28.

- [A053] Beck, S.L., Butler, R.G., Chase, C.G., and Davis, G.H., 1997, Structure and physics of the Earth: an integrated approach to teaching geophysics and structural geology to undergraduates: EOS, Transactions of the American Geophysical Union, 1997 Fall Meeting, v. 78, no. 46, p. F684.
- [A052] Davis, G.H., Garcia, P., Bump, A., Ahlgren, L.S., and Swanberg, K., 1997, Detailed internal structure of a conjugate strike-slip deformation band shear zone system in Navajo Sandstone at a salient in the Waterpocket Fold, Capitol Reef National Park, Utah: EOS, Transactions of the American Geophysical Union, 1997 Fall Meeting, v. 78, no. 46, p. F701.
- [A051] Garcia, P. and Davis, G.H., 1997, Detailed internal structure of a conjugate normal deformation band shear zone system in Navajo Sandstone at the northern end of the East Kaibab monocline, southern Utah: EOS Transactions of the American Geophysical Union, 1997 Fall Meeting, v. 78, no. 46, p. F702.
- [A050] Bump, A., Ahlgren, S., and Davis, G.H., 1997, A tale of two uplifts: Waterpocket Fold, Capitol Reef National Park: EOS. Transactions of the American Geophysical Union, 1997 Fall Meeting, v. 78, no. 46, p. F701,
- [A049] Davis, G.H., Crosswhite, J.A., Libarkin, J.C., Ojha, T.P., Riley, B.C., Tindall, S.E., and Woodburne, K.L., 1996, Laramide tear faulting and layer-parallel shearing as accommodations to thrust surge in the Huachuca Mountains, southeastern Arizona: Geological Society of America Abstracts with Programs, v. 28, p. 60.
- [A048] Davis, G.H., 1996, Deformation bands: agents of regional macroscopic ductility: Geological Society of America Abstracts with Programs, v. 28, p. 59-60.
- [A047] Davis, G.H., 1996, "Riedel relays" in deformation band shear zones, Colorado Plateau Utah: Geological Society of America Abstracts with Programs, v.28, no. 7, p. A-188.
- [A046] Davis, G.H., and Tindall, S.E., 1996, Discovery of major right-handed Laramide strike-slip faulting along the eastern margin of the Kaibab Uplift, Colorado Plateau, Utah: EOS, Transactions of the American Geophysical Union, 1996 Fall Meeting, v. 77, p. F641-642.
- [A045] Davis, G.H., 1995, Emerging patterns of deformation banding in the Colorado Plateau region of southern Utah: Geological Society of America Abstracts with Programs, v. 27, no. 6, p. A-218.
- [A044] Davis, G.H., Constenius, K.N., Rodriguez, E.P., and Cox, L. J., 1995, A detailed look at the map distribution of cataclasites in the Rincon Mountains metamorphic core complex, Martinez Ranch area, Arizona: Geological Society of America Abstracts with Programs, v. 27, no. 6, p. A-218.
- [A043] Davis, G.H., 1994, Active tectonics systems science -- an emerging plan: Abstracts the Sixth Annual IRIS Workshop, Glendale, California.
- [A042] Davis, G.H., 1994, Basic science planning initiative in "Active Tectonics:" Geological Society of America Abstracts With Programs, v. 26, no. 6, p. 38.
Davis, G.H., Bedford, J.M., Constenius, K.N., Cox, L.I., Johnson, J.A., Kong, F., Ornelas, R., Pecha, M., and Rodriguez, E.P., 1994, Deep cataclastic counterparts of neotectonic fault-rock architecture in granite footwall of the Basin and Range "Pirate" fault. Southern: Geological Society of America Abstracts with Programs, v. 26, no. 7, p. A-267- 268.
- [A041] Davis, G.H., 1994, Preliminary results of ongoing regional structural analysis of deformation bands in southern Utah: EOS, Transactions of the American Geophysical Union, v. 75, no. 44, p. 685.

- [A040] Davis, G.H., and Rowley, P.D., 1993, Miocene thrusting, gravity sliding, and near-surface batholithic emplacement, Marysville Volcanic Field, southwestern Utah: EOS, Transactions of the American Geophysical Union, 1993 Fall Meeting, p. 647.
- [A039] Davis, G.H., 1993, Basic science planning initiative in "Active Tectonics:" EOS, Transactions of The American Geophysical Union, 1993 Fall Meeting, p. 59.
- [A038] Nickelsen, R.P., Merle, O., and Davis, G.H., 1992, Structures of the mid-Tertiary radial compression in the High Plateaus of southern Utah in relation to Sevier, Laramide, and Basin and Range deformation: Geological Society of America Abstracts with Programs, v. 24, no. 6, p. 55.
- [A037] Davis, G.H., 1991, The structural geology of Bryce Canyon hoodoos: Geological Society of America Abstracts with Programs, v. 23, no. 1, p. 2063.
- [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, G.H., 1986, Frontiers of geological structural analysis in Arizona: Arizona Geological Society Digest. v. 15, p. 83.
- [A029] 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.
- [A028] 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.
- [A027] 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.
- [A026] 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.

- [A025] 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.
- [A024] 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.
- [A023] Davis, G. H., 1985, Metamorphic core complexes – expression of crustal extension by ductile-brittle shearing of the geologic column, in Conference on heat and detachment in crustal extension on continents and planets: Universities Space Research Association, Lunar and Planetary Institute, Houston, pp. 38-39.
- [A022] 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, v. 16(6), p. 560: Geological Society of America.
- [A021] Naruk, S.J. and Davis, G.H., 1983, Calculation of strain values and simple shear translations from mylonitic gneiss in a Cordillera metamorphic core complex, Geological Society of America Abstracts with Programs. v. 15(6), p. 650.
- [A020] Crespi, R.K., Naruk, S., and Davis, G.H., 1983. Methods of strain analysis in Arizona core complexes, Geological Society of America Abstracts with Programs, v. 15(5), p. 426.
- [A019] 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.
- [A018] 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.
- [A017] 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.
- [A016] 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.
- [A015] 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.
- [A014] 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.
- [A013] 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.
- [A012] 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.
- [A011] 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 monoclinial-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.

14 Publications: Miscellaneous

- [M27] 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.
- [M26] 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.
- [M25] Davis, G. H., 2008, "*Outside art: These slabs align the mind for inside discovery*:" The University of Arizona Poetry Center, July 2008 Newsletter.
- [M24] 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 Stroitleva, and Casie Vogel contributed to this opinion.
- [M23] 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.
- [M22] Davis, G.H., 1998, Coyote Mountains Core Complex: Field Trip Guidebook, University of Arizona GeoDaze Program, 1998.

- [M21] 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.
- [M20] Davis, G.H., 1997, From Zion to Bryce and beyond: Geosciences Newsletter, The University of Arizona: v. 3, no. 1, p. 1, 4-5.
- [M19] 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.
- [M18] 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.
- [M17] 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.
- [M16] 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.
- [M15] 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.
- [M14] 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.
- [M13] 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.
- [M12] Davis, G.H., 1987, Structural geology: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 17, pp. 508-509.
- [M11] 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.
- [P010] Davis, G.H., 1983, The sick fun of science: The Carleton Voice. v. 49, p. 27.
- [M09] Davis, G.H., 1982, "Diastrophism": McGraw-Hill Encyclopedia of Science and Technology, New York, v. 4, pp. 168-169.
- [M08] Davis, G.H., 1982, Fault and fault structures: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 5, pp. 323-326.
- [M07] Davis, G.H., 1982, Mountain systems: McGraw-Hill Encyclopedia of Science and Technology, New York, v. 4, pp. 771-772.
- [M06] 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.

- [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.

15 Sponsored Research

- 2020-2023. Co-PI on “Cognitive-Neural Analysis of Science Concept Learning: The Role of Metaphor. National Science Foundation. Proposal ID: 6822. PI is Vicky Tzuyin Lai. Submitted.
- 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, during time I served as 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. \$1,000.

16 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.

17 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, Laver Mayer, William McClelland, Christopher Menges, Dorothy Merritts, Syver More, Jeffrey Morehouse, Kendra Murray, Phillip Nickerson, Phillip Pearthree, 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.

18 Undergraduate Research Advisees

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

19 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)

Director, Geology Field Camp (1970-75)

20 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