Kip Hodges

Curriculum Vitae

(Last updated September 2017)

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RESEARCH DOMAINS

*Continental tectonics*, with special emphasis on the co-evolution of climate and mountain ranges

*Noble gas geochemistry*, with special emphasis on the development of new analytical protocols and advanced applications of 40Ar/39Ar, (U-Th)/He, and (U-Th)/Ne geochronology and thermochronology

*Planetary field science*, with special emphasis on scientific exploration through coordinated human and robotic field activities

*Planetary evolution*, with special emphasis on the use of geochronology and thermochronology to constrain the age and tempo of bolide impact events on Earth, Mars, the Moon, and asteroids

*Science education*, with special emphasis on the development of new strategies for experiential and project-based learning, inside and outside the classroom

EDUCATION

1982 Ph.D. Geology, Massachusetts Institute of Technology (B.C. Burchfiel, advisor), Tectonic Evolution of the Aefjord-Sitas Area, Norway-Sweden

1978 B.Sc. Geology (with highest honors), University of North Carolina at Chapel Hill

EMPLOYMENT

2006-Present Foundation Professor, School of Earth and Space Exploration, Arizona State University (ASU)

2006-2013 Founding Director, School of Earth and Space Exploration, ASU

2002-2006 Founding Co-Director, MIT Earth Systems Initiative

2002-2006 Founding Co-Director, MIT Terrascope Program

2002-2006 MacVicar Faculty Fellow, MIT

1993-2006 Professor, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology (MIT)

1997-1999 Dean for Undergraduate Curriculum, MIT

1987-1993 Associate Professor, Department of Earth, Atmospheric, and Planetary Sciences, MIT (tenured 1990)

1983-1987 Assistant Professor, Department of Earth, Atmospheric, and Planetary Sciences, MIT

1982-1983 Assistant Professor, Department of Geology and Geophysics, University of Wyoming (UW)

SUBJECTS TAUGHT

Earth Science – Undergraduate

Continental Tectonics (ASU); Directed Field Studies (MIT); Field Geology (MIT); Introductory Geology (MIT); Petrology (MIT); Special Problems in Field Geology (MIT); Structural Geology (UW/MIT); various freshman advising seminars (MIT)

Transdisciplinary – Undergraduate

Engineering Systems and Experimental Design (ASU); Solving Complex Problems (MIT); The ASU Experience (ASU)

Environmental Science and Policy – Undergraduate

Solving Environmental Problems (ASU); Strange Bedfellows: Science and Environmental Policy (MIT); Terrascope Radio (MIT)

Earth Science – Graduate

Advanced Directed Field Studies (MIT); Advanced Field Geology (MIT); Continental Tectonics (UW/ASU); Isotope Geochemistry (ASU); Isotope Geology (MIT); Pressure-Temperature-Time Evolution of Orogenic Belts (MIT); Seminar in Regional Tectonics (MIT); Strain Analysis in Orogenic Belts (MIT); The Strength of the Continental Lithosphere (MIT); Tectonic Geomorphology (MIT); Thermal Evolution of Orogenic Systems (ASU); Written and Oral Communication in the Earth, Atmospheric, and Planetary Sciences (MIT); seminars on geochronology, regional tectonics, and paleoclimate (ASU/MIT)

AWARDS, FELLOWSHIPS, & HONORS

Amoco Foundation Scholarship; National Association of Geoscience Teachers Summer Field Camp Scholarship; Phi Beta Kappa; Op White Award for Outstanding Undergraduate in Geology, University of North Carolina; National Science Foundation Graduate Fellowship; U.S. National Science Foundation (NSF) Grant for Improvement of Doctoral Dissertation Research; Chris Goetze Award for the Outstanding Ph.D. Thesis in the Solid Earth Sciences, MIT; MIT Graduate Student Council Award for Teaching Excellence; ISI Thompson Research Highly Cited Researcher; MacVicar Faculty Fellow, MIT; Best Paper Award, Structural Geology and Tectonics Division, Geological Society of America (2005); Fellow, Geological Society of America; Fellow, American Geophysical Union; National Aeronautics and Space Administration (NASA) Group Achievement Award – Robotic Reconnaissance Test Team, Science Lead (2009); NASA Group Achievement Award – Desert RATS Science Team, Science Lead (2010); American Association for the Advancement of Science/*Science* Prize for Inquiry-Based Instruction (2012)

STATE/NATIONAL/INTERNATIONAL PROFESSIONAL SERVICE

2017-Present Chairman, Advisory Committee, Directorate of Geosciences, NSF

2017-Present Chairman, Board of Deputy Editors, *Science Advances* (American Association for the Advancement of Science)

2016-Present Board of Directors, Aerospace Arizona

2016-Present Study Program Co-Leader (with Robert Anderson and Joel Burdick), *Space Science Opportunities Augmented by Exploration Telepresence*, Keck Institute for Space Studies, California Institute of Technology

2015-Present Advisory Committee, Directorate of Geosciences, NSF

2014-Present Deputy Editor, *Science Advances* (American Association for the Advancement of Science)

2017 BlueSky study: *Aerospace: The Next 100 Years Project*, Institute of Human and Machine Cognition, Pensacola FL

2017 Science Review Panel (NASA)

2015 Program Committee, European Space Agency International Symposium on Moon 2020-2030, ESA/ESTEC, Noordwijk, the Netherlands

2014 Earth science field and classroom training of the 2013 Astronaut Candidate class, Houston, TX and northern New Mexico (Astronaut Office, NASA Johnson Spaceflight Center)

2014 Science Review Panel (NASA)

2013 Curriculum development for earth science training of the 2013 Astronaut Candidate class, Houston, TX (Astronaut Office, NASA Johnson Spaceflight Center)

2012 Advisory Panel, The Role and Scope of the 21st Century Integrated Petroleum Engineering and Geosciences College, Houston, TX (Saudi Aramco)

2012 Faculty, field geology boot camp for in-service astronauts and exploration engineers, northern AZ (Astronaut Office, NASA Johnson Spaceflight Center)

2012 Convener, Workshop on *Teaching Structural Geology, Geophysics, and Tectonics in the 21st Century*, Knoxville, TN (On the Cutting Edge Professional Development Program, National Association of Geoscience Teachers)

2012 Lunar Exploration Analysis Group Specific Action Team: *Lunar Science Opportunities Provided by Human or Robotic Expeditions to Earth-Moon Lagrange Point 2*, Houston, TX (Human Exploration and Operations Mission Directorate, NASA)

2009-2010 Science Operations Team, Desert Research and Technology Studies (Desert RATS), Black Point, AZ (Exploration Systems Mission Directorate, NASA)

2008-2010 Planetary Science Subcommittee, NASA Advisory Council

2008-2010 BlueSky studies: *The Lunar Electric Rover and Associated Planetary Field Geology Activities*, Institute of Human and Machine Cognition, Pensacola and Ocala, FL, Houston, TX (Human Exploration and Operations Mission Directorate, NASA)

2009 Earth science field training of the 2009 Astronaut Candidate class, central Arizona (Astronaut Office, NASA Johnson Spaceflight Center)

2009 NASA Education Summit, Washington, DC (Administrator’s Office, NASA)

2009 K10 Robot Science PI, *Operations Readiness Testing Activities for Robot Reconnaissance During Planetary Exploration*, Mountain View, CA, Black Point, AZ (Intelligent Robotics Group, NASA Ames Research Center)

2004-2009 Editor in Chief, *Tectonics* (American Geophysical Union)

1992-2007 Editorial Board, Contributions to Mineralogy and Petrology

2002-2004 Best Paper Award Committee (Structural Geology and Tectonics Division, Geological Society of America)

1999-2004 Editor in Chief, *Tectonophysics*

2001-2003 Organizing Committee, *Soil and Rock America Conference 2003* (12th Pan-American Conference and 39th U.S. Rock Mechanics Symposium)

2001 Chair, Hot Topics, Annual Meeting, Boston, MA (Geological Society of America)

1999-2000 Chair, Committee on the Career Contribution Award (Structural Geology and Tectonics Division, Geological Society of America)

1997-2000 Committee on the Career Contribution Award (Structural Geology and Tectonics Division, Geological Society of America)

1999 Review Panel, New Computational Challenges – Knowledge and Distributed Intelligence Program (NSF)

1997-1999 Committee on the Arthur L. Day Medal (Geological Society of America)

1994-1997 Editorial Board, *Geology* (Geological Society of America)

1997 Review Panel, Proposals for University-Wide Undergraduate Curriculum Reform in Science and Engineering (NSF)

1992-1995 Associate Editor, *Bulletin of the Geological Society of America* (Geological Society of America)

1990-1992 Review Panel, Tectonics Program (NSF)

1992 Panelist, Volcanism: Update on characterization, probability, and volcanic effects studies related to the potential high-level nuclear waste repository at Yucca Mountain, Nevada, Las Vegas, NV (U.S. Nuclear Waste Technical Review Board)

1991 Review Panel, Early-Site Suitability Evaluation for the Potential High-Level Nuclear Waste Repository at Yucca Mountain, Nevada (U.S. Department of Energy)

UNIVERSITY SERVICE

At Arizona State University

2014-Present Limited Submissions Review Committee, Office of Knowledge Enterprise Development

2012-Present Imagination Council, Center for Science and the Imagination

2008-Present Faculty Advisory Committee, Origins Initiative

2014-2016 Selection Committee, Origins Postdoctoral Prize

2012 Chair, Search Committee, Dean of Natural Sciences

2011 Search Committee, Dean of the College of Liberal Arts and Sciences

2007-2009 Faculty International Committee

At the Massachusetts Institute of Technology

2004-2006 Associate Chair, Presidential Task Force on the MIT Undergraduate Educational Commons

2003-2006 Selection Committee, Henry Kendall Lectureship (Chair, 2003-2004)

2001-2006 MIT Council on Environment

1983-2006 Freshman and upperclassman academic advisor

2001-2004 MIT Council on Educational Technology

2001-2004 Faculty Committee on the Undergraduate Program

2001-2004 Selection Committee, James R. Killian, Jr., Faculty Achievement Award

2001-2003 Chair, Faculty Committee on the Undergraduate Program

2001-2003 Faculty Committee on Curricula (*Ex Officio*)

2001-2003 Faculty Policy Committee (*Ex Officio*)

1998-1999 Faculty Facilitator, MIT Leadershape Institute

1998-1999 Co-Chair, MIT Educational Design Project

1997-1999 Faculty Committee on the Undergraduate Program

1997-1999 Committee on Women Faculty in the School of Science at MIT

1997-1998 Faculty Committee on the Independent Activities Period

1992-1996 Chair, Faculty Committee on the Writing Requirement

1994 Co-Chair, Subcommittee to Evaluate the Efficacy of the MIT Writing Requirement (Committee on the Undergraduate Program)

1990-1992 Committee on the Hobby Shop

1989-1990 Chair, Faculty Committee on the Writing Requirement

1987-1990 Faculty Committee on the Writing Requirement

DEPARTMENT/SCHOOL SERVICE

At Arizona State University

2015-Present Promotion and Tenure Subcommittee, Personnel Committee

2016-2017 Search Committee, Isotope Geochemistry Faculty Hire

2014-2015 Search Committee, Planetary Science Faculty Hires

2006-2013 Founding Director, School of Earth and Space Exploration

At the Massachusetts Institute of Technology

1999-2003 Undergraduate Education Committee

1997-2003 Selection Committee, Crosby Visiting Professor

1993-2000 Library Committee

1996-1997 Chair, Geology and Geochemistry Faculty Committee

1996-1997 Chair, Geology and Geochemistry Graduate Education Committee

1990-1994 Chair, Graduate Education Committee

1988-1990 Departmental Coordinator for the Writing Requirement

1989-1990 Chair, Geology and Geochemistry Faculty Committee

1984-1989 Graduate Admissions Committee

1986-1987 Student Research Fund Committee

INVITED LECTURES & KEYNOTE ADDRESSES

Symposia

NSF-Taiwan Ministry of Science and Technology Workshop, FACET II (Feedbacks Among Climate, Erosion, and Tectonics), Corvallis, Oregon: *Impressions on Climate & Tectonic Feedbacks in the Himalaya* (keynote)

European Space Agency International Symposium, Moon 2020-2030: A New Era of Coordinated Human and Robotic Exploration: *The Need for Science Operations Research in Preparing for Coordinated Human and Robotic Exploration* (plenary)

NSF-Taiwan Ministry of Science and Technology Workshop, FACET (Feedbacks and Coupling Among Climate, Erosion, and Tectonics During Mountain Building), Taipei, Taiwan: *Emerging Perspectives on Himalayan Neotectonics* (keynote)

Thermo2014, 14th International Conference on Thermochronology, Chamonix, France: *Laser Microprobe (U-Th)/He Thermochronology* (keynote)

Geological Society of America Penrose Conference, Linkages and Feedbacks in Orogenic Systems: *The Co-Evolution of Pliocene-Pleistocene Tectonics and Climate in Himalayan-Tibetan Orogenesis* (keynote)

NASA Goddard Space Flight Center, Inaugural Symposium on Exploration Telerobotics: *Planetary Field Science* (plenary speaker)

Geological Society of America Annual Meeting, Planetary Science Committee Symposium and Theme Session: *Field Geology on Other Planets: An Emerging Science*

American Association for the Advancement of Science, Southwestern and Rocky Mountain Division, Annual Meeting Symposium: *Building the Foundations of Sustainability through Transdisciplinary Science and Engineering* (keynote)

National Association of Geoscience Teachers and Science Education Resource Center, Carleton College Symposium, Connecting Geoscience Departments to the Future of Science: *New Structures for Research and Curriculum* (keynote)

University of Lausanne Symposium, The Future of Noble Gas Thermochronology

Geological Society of America Annual Meeting Symposium, Thermochronology (keynote)

University of Connecticut Symposium, Dimensions in Geosciences

15th Annual Goldschmidt Conference Session, Geochronology of Tectonic Processes (keynote)

Geological Society of London Conference, Channel Flow Tectonics (keynote)

Université de Cergy Pontoise/Institut Français du Pétrole International Workshop, Geodynamics of Mediterranean Basins – Tertiary Extension Within the Alpine Orogen (keynote)

Mineralogical Society of Great Britain/Geological Society of London Conference, What Drives Metamorphism and Metamorphic Reactions? (keynote)

Geological Society of America Penrose Conference, Metamorphic Core Complexes Revisited

Royal Society of London Discussion Meeting, Himalayan Tectonics (keynote)

Geological Society of America Annual Meeting, International Division Symposium and Theme Session, Evolution and Global Consequences of the Himalayan Orogenic System

Short Courses

Keck Institute for Space Studies (Caltech) Short Course on Exploration Telepresence: *Principles of Geologic Fieldwork on Planets*

Earthscope/Geological Society of America Annual Meeting, Pre-Meeting Short Course: *40Ar/39Ar Geochronology and Thermochronology*

University of New Mexico: *40Ar/39Ar Thermochronology*

Nordic Council/University of Oslo: *Late-Orogenic Extensional Tectonics*

Society of Economic Geologists: *40Ar/39Ar Geochronology Using the Laser Microprobe*

Mineralogical Society of America/Geochemical Society: *Detrital Mineral Thermochronology*

Colloquia

Boston College; Brown University; California Institute of Technology; Carelton University; Chengdu Institute of Geology (Chengdu, China); Cornell University; Geological Survey of Canada; Duke University; Harvard University; Kansas State University; Keck Institute for Space Studies; Lamont-Doherty Earth Observatory; Lehigh University; Oxford University; Pennsylvania State University; Stanford University; State University of New York - Albany; Syracuse University; University of British Columbia; University of Cambridge; University of Chicago; University of Connecticut; University of Idaho; University of Kansas; University of Maine; University of Massachusetts at Amherst; University of Michigan; University of North Carolina; University of Rochester; University of Southern California; University of Texas – Austin; University of Texas – El Paso; Williams College; Vrije Universiteit (Amsterdam); Yale University

PUBLIC SCIENCE EDUCATIONAL ACTIVITIES

Ongoing Design of exhibits for the Gallery of Planetary Exploration, Interdisciplinary Science and Technology Building 4, Arizona State University, Tempe, AZ

2016 Panel discussion participant on the pre-release Paramount Pictures film *Arrival*, Harkins Camelview Theater, Scottsdale, AZ

 2016 Lecture: Astronaut/Scientist Explorers and the Future of Planetary Field Research, SESE New Discoveries Lecture, Tempe, AZ

2016 Online Seminar: *Planetary Geochronology*, NASA/JPL Museum Alliance

2013 Lecture: *The Planets – Perspectives Old and New*, Phoenix Symphony Orchestra (to accompany a performance of *The Planets* by Gustav Holst), Phoenix, AZ

2012 Lecture: *The Impact of Earth and Space Science Research on Arizona’s Economy*, Office of Knowledge Enterprise Development, Arizona State University, Tempe, AZ

2012 Lecture: *A New Era of Scientific Exploration*, Presidential Engagement Program, Arizona State University, Tempe, AZ

2012 Lecture: Reinventing Earth and Space Sciences for the 21st Century: Challenges and Opportunities, Sonoran Speakers Club, Scottsdale, AZ

2012 Lecture: *A New Era of Human and Robotic Planetary Field Geology*, Public Lecture Series, Institute for Human and Machine Cognition, Ocala, FL

2009 Lecture: *Climate and the Evolution of Mountains*, Arizona State University Foundation, President’s Community Enrichment Programs, Tempe, AZ

2008 Lecture: *Climate and the Evolution of Mountains*, Public Lecture Series, Institute for Human and Machine Cognition, Pensacola, FL

2002–2005 Lecture Series: *The Evolution of Mountain Systems*, Knight Journalism Fellows Program, Massachusetts Institute of Technology, Cambridge, MA

2005 Lecture: *New Perspectives on Earth System Evolution*, MIT Club of Southern Florida, Rookery Bay National Estuarine Research Reserve, FL

2004 Lecture: *Evolution of Mountain Ranges*, MIT Club of Southern California, Santa Monica, CA

2004 Lecture: *Evolution of Mountain Ranges*, MIT Club of Boston, Cambridge, MA

2004 Lectures: *Island Biodiversity and Plate Tectonics*, aboard *Le Ponant*, Zegraham Expeditions, western Indian Ocean (between Madagascar and the Seychelles)

2003 Lectures: *Amazon Rainforest Ecosystems and Earth System Science*, aboard *La Tourmalina*, upper Amazon River and tributaries, Peru

2002 Lectures: *Geology of Baja California and Evolution of the Sea of Cortez*, aboard *M/V Seabird*, Linblad Expeditions, Sea of Cortez and Pacific Ocean, Mexico

1999 Lecture: *Geology of the Himalaya*, New Mexico Museum of Science and Technology, Albuquerque, NM

1998 Lecture: *Geology of the Himalaya*, Spokane Community Center, Spokane, WA

1996–1998 Science advisor for the MacGillivray Freeman IMAX/IWERKS film *Everest*

POSTDOCTORAL ADVISEES

(asterisks indicate current advisees)

Biren, M.A., Cartwright, J., Cooper, F., Forte, A., Hames, W., Herren, E., Krol, M., Mercer, C., Monteleone, B., Tripathy-Lang, A., Vannay, J.-C., Weirich, J., and Zhang, X.

GRADUATE ADVISEES

Ph.D (asterisks indicate degree in progress)

Adams, B.A., Anderson, A.\*, Applegate, J.D., Bohon, W., Borneman, N., Boyce, J.W., Bruner, A.\*, Coleman, M.A., Friedrich, A.M., Horne, A.M.\*, House, M.A., Hubbard, M.S., Huerta, A., Huntington, K., Hurtado, J.M., Knapp, J., Macfarlane, A., McDermott, J., McKenna, L., Mercer, C., Pye, A.\*, Schildgen, T., Schultz, M., Silverberg, D., Stock, J., Tripathy-Lang, A., Viskupic, K., White, A.P., Wobus, C., and Young, K.E.

M.Sc.

Blevens, D.M., Clark, R., Dotson, E.A., Harding, M.B., Horne, A., Ruppel, C., Saltzer, S., Saylor, B., and Tshering, P.

HONORS THESIS ADVISEES

(asterisks indicate current advisees)

Pruitt, J., and Cronk, S.

POPULAR MEDIA CONTRIBUTIONS

Ongoing Brief reviews of selected *Science Advances* papers, published in *Science* as part of that journal’s *This Week in Science* column, American Association for the Advancement of Science, Washington, DC

Hodges, K. (2017), Human impacts on rainfall distribution, *Science*, *356*, 918-919.

Hodges, K. (2017), Reconciling sea surface temperature records, *Science*, *355*, 35.

Hodges, K. (2016), Megadrought risk in the American Southwest, *Science*, *354*, 77-78.

Hodges, K. (2016), Mapping the local Milky Way, *Science*, *353*, 1509.

Hodges, K. (2016), Molten rock underlies North Korean volcano, *Science*, *352*, 424-425.

Hodges, K. (2016), Making mountains, *Science*, *352*, 1288-1290.

Hodges, K. (2016), Crowdsourcing earthquake early warnings, *Science*, *351*, 827-828.

Hodges, K. (2016), How stars grow, *Science*, *351*, 676-677.

Hodges, K. (2015), Climate chance and Norse migration patterns, *Science*, *350*, 1217-1218.

Hodges, K. (2015), Historical perspectives on Old World drought, *Science*, *350*, 646-646.

Hodges, K. (2015), Evidence of a universal physics of accretion, *Science*, *350*, 173-174.

Hodges, K. (2015), How to melt the Antarctic Ice Sheet, *Science*, *349*, 939-940.

Hodges, K. (2015), Crowdsourcing early warnings of natural disasters, *Science*, *348*, 196-198.

Hodges, K. (2015), The search for signatures of life on exoplanets, *Science*, *347*, 1109-1111.

2012 Space Exploration – Science as a Contact Sport, a conversation with Intel’s Brian David Johnson, The Tomorrow Project USA (<http://www.youtube.com/watch?v=yTVKTw-bot8>).

2012 A New Era of Human and Robotic Planetary Field Geology, video of lecture for the Institute of Human and Machine Cognition (<http://www.youtube.com/watch?v=USNGSfHbfdk>).

2011 The Scientist as Storyteller, video recorded for Project Humanities, Arizona State University (<http://www.youtube.com/watch?v=0MHp4THE4h8>).

2007 Article: Wie das Klima Berge versetzt. *Spectrum der Wissenschaft* 2, 52-59.

2006 Article: Climate and the evolution of mountains. *Scientific American* 295, 72-79.

2002 Encyclopedia Entry: *Orogeny*, McGraw-Hill Encyclopedia of Science and Technology, 9th Edition. McGraw-Hill Professional, New York.

1997 Sidebar: *The highest fault in the world*, in: Coburn, B. (Ed.), *Everest: Mountain Without Mercy*. National Geographic Books, Washington.

PROFESSIONAL PUBLICATIONS (ResearcherID: A-7992-2009)

Explanations and Statistics

The list below in chronological order, includes neither manuscripts that are in review, nor abstracts, nor papers that were not peer-reviewed. Asterisks indicate papers for which a member of KVH’s research group (including research scientists, postdoctoral scholars, or students under his supervision) was first author.

Of the published papers and extended abstracts listed for ResearcherID: A-7992-2009, only about 80% have been indexed by *Web of Science*. Citation metrics from that database (accessed July 2017) indicate 9,507 total citations, an average of 66 citations per article, and an h-index of 53. *Google Scholar* (accessed July 2017), which captures a larger cross section of publications – including abstracts and others not peer-reviewed, as well as those not indexed by *Web of Science* – indicates 15,022 citations and an h-index of 61.

1. Rogers, J. J. W., Hodges, K. V., and Ghuma, M. A., 1980, Trace elements in continental-margin magmatism; Part II, Trace elements in Ben Ghnema Batholith and nature of the Precambrian crust in central North Africa: Geological Society of America Bulletin, v. 91, p. 1742-1788.
2. Willemin, J. H., Guth, P. L., and Hodges, K. V., 1980, High fluid pressure, isothermal surfaces, and the initiation of nappe movement – Comment: *Geology*, v. 8, p. 405-406.
3. Guth, P. L., Hodges, K. V., and Willemin, J. H., 1982, Limitations on the role of pore pressure in gravity gliding: *Geological Society of America Bulletin*, v. 93, p. 606-612.
4. Hodges, K. V., Bartley, J. M., and Burchfiel, B. C., 1982, Structural evolution of an A-type subduction zone, Lofoten-Rombak area, northern Scandinavian Caledonides: *Tectonics*, v. 1, p. 441-462.
5. Hodges, K. V., and Spear, F. S., 1982, Geothermometry, geobarometry and the Al2SiO5 triple point at Mt. Moosilauke, New Hampshire: *American Mineralogist*, v. 67, p. 1118-1134.
6. Hodges, K. V., and Fountain, D. M., 1984, Pogallo Line, South Alps, northern Italy: in intermediate crustal level, low-angle normal fault?: *Geology*, v. 12, p. 151-155.
7. Hodges, K. V., and Royden, L. H., 1984, Geologic thermobarometry of retrograded metamorphic rocks: an indication of the uplift trajectory of a portion of the northern Scandinavian Caledonides: *Journal of Geophysical Research*, v. 89, p. 7077-7090.
8. Royden, L. H., and Hodges, K. V., 1984, A technique for analyzing the thermal and uplift histories of eroding orogenic belts: A Scandinavian example: *Journal of Geophysical Research*, v. 89, p. 7091-7106.
9. Spear, F. S., Selverstone, J., Hickmott, D., Crowley, P., and Hodges, K. V., 1984, P-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terrains: *Geology*, v. 12, p. 87-90.
10. Hodges, K. V., 1985, Tectonic stratigraphy and structural evolution of the Efjord-Sitasjaure area, northern Scandinavian Caledonides: Bulletin - *Norges Geoløgiske Undersøkelse*, v. 399, p. 41-60.
11. Hodges, K. V., and Crowley, P. D., 1985, Error estimation and empirical geothermobarometry for pelitic systems: *American Mineralogist*, v. 70, p. 702-709.
12. Spear, F. S., Selverstone, J., Hickmott, D., Crowley, P., and Hodges, K. V., 1985, P-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terrains – Reply to comment: *Geology*, v. 13, p. 81.
13. Tull, J. F., Bartley, J. M., Hodges, K. V., Andresen, A., Steltenpohl, M. G., and White, J. M., 1985, The Caledonides in the Ofoten region (68˚N), north Norway: Key aspects of tectonic evolution, *in* Gee, D. G., ed., *The Caledonide Orogen: Scandinavia and Related Areas*: New York, John Wiley and Sons, p. 553-568.
14. Wernicke, B. P., Hodges, K. V., and Walker, J. D., 1986, Geological setting of the Tucki Mountain area, Death Valley national Monument, California, *in* Dunne, G. C., ed., *Mesozoic and Cenozoic Structural Evolution of Selected Areas, East-Central California Guidebook*: Boulder, CO, Geological Society of America.
15. Burchfiel, B. C., Hodges, K. V., and Royden, L. H., 1987, Geology of Panamint Valley-Saline Valley pull-apart system, California: Palinspastic evidence for low-angle geometry of a Neogene range-bounding fault: *Journal of Geophysical Research*, v. 92, p. 10422-10426.
16. Hodges, K. V., and McKenna, L. W., 1987, Realistic propagation of uncertainties in geologic thermobarometry: *American Mineralogist*, v. 72, p. 671-680.
17. Hodges, K. V., Walker, J. D., and Wernicke, B. P., 1987, Footwall structural evolution of the Tucki Mountain detachment system, Death Valley region, southeastern California, *in* Coward, M. P., Dewey, J. F., and Hancock, P. L., eds., *Continental Extensional Tectonics*, Volume Special Publication 28: Oxford, Geological Society of London, p. 393-408.
18. Hodges, K. V., Hubbard, M. S., and Silverberg, D. S., 1988, Metamorphic constraints on the thermal evolution of the central Himalayan Orogen: *Philosophical Transactions of the Royal Society of London*, v. A 326, p. 257-280.
19. Hodges, K. V., LeFort, P., and Pêcher, A., 1988, Possible thermal buffering by crustal anatexis in collisional orogens: Thermobarometric evidence from the Nepalese Himalaya: *Geology*, v. 16, p. 707-710.
20. Hodges, K. V., and Silverberg, D. S., 1988, Thermal evolution of the Greater Himalaya, Garhwal, India: *Tectonics*, v. 7, p. 583-600.
21. McKenna, L. W., and Hodges, K. V., 1988, Accuracy versus precision in locating reaction boundaries: Implications for the garnet-plagioclase-aluminum silicate-quartz geobarometer.: *American Mineralogist*, v. 73, p. 1205-1208.\*
22. Ruppel, C., Royden, L., and Hodges, K. V., 1988, Thermal modeling of extensional tectonics: application to pressure-temperature-time histories of metamorphic rocks.: *Tectonics*, v. 7, p. 947-957.\*
23. Saltzer, S., and Hodges, K. V., 1988, The Middle Mountain shear zone, southern Idaho: Kinematic analysis of a Tertiary, high-temperature detachment: *Geological Society of America Bulletin*, v. 100, p. 96-103.\*
24. Wernicke, B. P., Walker, J. D., and Hodges, K. V., 1988, Detachment surfaces in the southern Great Basin: Field guide to the northern part of the Tucki Mountain fault system, Death Valley region, southern California, *in* Weide, D. L., and Faber, M. L., eds., *This Extended Land: Geological Journeys in the Southern Basin and Range*: Boulder, CO, Geological Society of America Cordilleran Section Field Trip Guidebook, p. 58-63.
25. Hodges, K., 1989, Book Review: The Geological Evolution of Tibet - Academia Sinica Geotraverse of the Qinghai-Xizang Plateau: *Science*, v. 244, p. 1202-1203.
26. Hodges, K. V., LeFort, P., and Pêcher, A., 1989, Possible thermal buffering by crustal analtexis in collisional orogens – Thermobarometric evidecne from the Nepalese Himalaya – Reply to Comment: *Geology*, v. 17, p. 575.
27. Hodges, K. V., McKenna, L. W., Stock, J., Knapp, J., Page, L., Sternlof, K., Silverberg, D., Wust, G., and Walker, J. D., 1989, Evolution of extensional basins and Basin and Range topography west of Death Valley, California: *Tectonics*, v. 8, p. 453-467.
28. Stock, J. M., and Hodges, K. V., 1989, Pre-Pliocene extension around the Gulf of California, and the transfer of Baja California to the Pacific Plate: *Tectonics*, v. 8, p. 99-115.\*
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