Kip Hodges

Curriculum Vitae

(Last updated September 2013)

Address	School of Earth and Space Exploration, Arizona State University, P.O. Box 876000 Tempe, AZ 85287-6004
Phone	(+1) 480 965 5331
Email	kvhodges@asu.edu
Group Website	tectonics.asu.edu

RESEARCH THEMES

Continental tectonics, with special emphasis on the co-evolution of climate and tectonic processes

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

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

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

Innovative protocols for science education

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
2006–2013	Founding Director, School of Earth and Space Exploration, Arizona State University
1993–2006	Professor, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology
2002–2006	Founding Co-Director, MIT Earth Systems Initiative
2002–2006	Founding Co-Director, MIT Terrascope Program
2002–2006	MacVicar Faculty Fellow, Massachusetts Institute of Technology
1997–1999	Dean for Undergraduate Curriculum, Massachusetts Institute of Technology

1987–1993	Associate Professor, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology (tenured 1990)
1983–1987	Assistant Professor, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology
1982–1983	Assistant Professor, Department of Geology and Geophysics, University of Wyoming

SUBJECTS TAUGHT

Earth Science – Undergraduate

Directed Field Studies (MIT); Field Geology (MIT); Introductory Geology (MIT); Petrology (MIT); Special Problems in Field Geology (MIT); Structural Geology (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); 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); numerous seminars on geochronology and regional tectonics (ASU & MIT)

AWARDS, FELLOWSHIPS, & HONORS

Amoco Foundation Scholarship; NAGT Summer Field Camp Scholarship; Phi Beta Kappa; Op White Award for Outstanding Undergraduate in Geology, University of North Carolina (1978); National Science Foundation Graduate Fellowship; National Science Foundation Grant for Improvement of Doctoral Dissertation Research; Chris Goetze Award for the Outstanding Ph.D. Thesis in the Solid Earth Sciences, MIT (1982); MIT Graduate Student Council Award for Teaching Excellence (1986); 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; 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)

NATIONAL/INTERNATIONAL PROFESSIONAL SERVICE

2013	Curriculum development for anticipated (2014) 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	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

2012–Present	Imagination Council, Center for Science and the Imagination
2008–Present	Faculty Advisory Committee, Origins Initiative
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

2001–2006	MIT Council on Environment
1983–2006	Freshman and upperclassman academic advisor
2003–2004	Chair, Henry Kendall Lectureship Committee
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

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

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

Royal Society of London Discussion Meeting: *Himalayan Tectonics* (keynote)

Geological Society of America Penrose Conference: *Metamorphic Core Complexes Revisited*

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

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

Geological Society of London Conference: *Channel Flow Tectonics* (keynote)

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

University of Connecticut Symposium: *Dimensions in Geosciences*

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

University of Lausanne Symposium: The Future of Noble Gas Thermochronology

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)

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)

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

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

Short Courses

University of New Mexico: *$^{40}Ar/^{39}Ar$ Thermochronology*

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

Society of Economic Geologists: $^{40}Ar/^{39}Ar$ 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; Lamont-Doherty Earth Observatory; Lehigh University; Oxford University; Pennsylvania State University; Stanford University; State University of New York - Albany; Syracuse University; 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 – El Paso; Williams College; Vrije Universiteit (Amsterdam); Yale University

PUBLIC SCIENCE EDUCATIONAL ACTIVITIES

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

GRADUATE ADVISEES

Ph.D (asterisks indicate degree in progress)

Adams, B.A.*, Applegate, J.D., Bohon, W.*, Borneman, N.*, Boyce, J.W., Coleman, M.A., Friedrich, A.M., Horne, A.*, House, M.A., Hubbard, M.S., Huerta, A., Huntington, K., Hurtado, J.M., Knapp, J., Macfarlane, A., McDermott, J., McKenna, L., Mercer, C.*, 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., Ruppel, C., Saltzer, S., Saylor, B., and Tshering, P

POSTDOCTORAL ADVISEES

(asterisks indicate current advisees)

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

POPULAR MEDIA CONTRIBUTIONS

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

Hodges, K.V., 2002. Orogeny, McGraw-Hill Encyclopedia of Science and Technology, 9th Edition. McGraw-Hill Professional, New York.

Hodges, K., 2006. Climate and the evolution of mountains. Scientific American 295, 72-79.

Hodges, K.V., 2007. Wie das Klima Berge versetzt. Spectrum der Wissenschaft 2, 52-59.

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

Hodges, Kip, 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).

Hodges, Kip, 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).

PROFESSIONAL PUBLICATIONS (ResearcherID: A-7992-2009)

Explanations and ISI Web of Science Statistics

List does not include abstracts or papers that were not peer-reviewed. Asterisks indicate papers with members of KVH's research group (including research scientists, postdoctoral scholars, or students under his supervision) as first authors.

Of the total number of published papers and papers in press (n = 150), only about 3/4 have been indexed by *Web of Science*. Citation metrics from that database (accessed December 2013) indicate 7366 total citations, an average of 55 citations per article, and an h-index of 47.

Rogers, J. J. W., K. V. Hodges, and M. A. Ghuma (1980), Trace elements in continental margin magmatism 2. Trace elements in Ben Ghnema batholith and nature of the Precambrian crust in central North Africa, *Geological Society of America Bulletin*, *91*, 445-447.

Willemin, J. H., P. L. Guth, and K. V. Hodges (1980), High fluid pressure, isothermal surfaces, and the initiation of nappe movement – Comment, *Geology*, *8*, 405-406.

Guth, P. L., K. V. Hodges, and J. H. Willemin (1982), Limitations on the role of pore pressure in gravity gliding, *Geological Society of America Bulletin*, *93*, 606-612.

Hodges, K. V., J. M. Bartley, and B. C. Burchfiel (1982), Structural evolution of an A-type subduction zone, Lofoten-Rombak area, northern Scandinavian Caledonides, *Tectonics*, *1*, 441-462.

Hodges, K. V., and F. S. Spear (1982), Geothermometry, geobarometry and the Al_2SiO_5 triple point, Mt. Moosilauke, New Hampshire, *American Mineralogist*, *67*, 1118-1134.

Hodges, K. V., and D. M. Fountain (1984), Pogallo Line, South Alps, northern Italy: An intermediate crustal level, low-angle normal fault?, *Geology*, *12*, 151-155.

Hodges, K. V., and L. Royden (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*, *89*, 7077-7090.

Royden, L., and K. V. Hodges (1984), A technique for analyzing the thermal and uplift histories of eroding orogenic belts: A Scandinavian example, *Journal of Geophysical Research*, *89*, 7091-7106.

Spear, F. S., J. Selverstone, D. Hickmott, P. Crowley, and K. V. Hodges (1984), P-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terrains, *Geology*, *12*, 87-90.

Hodges, K. V. (1985), Tectonic stratigraphy and structural evolution of the Efjord-Sitasjaure area, northern Scandinavian Caledonides, *Bulletin - Norges Geoløgiske Undersøkelse*, 41-60.

Hodges, K. V., and P. D. Crowley (1985), Error estimation and empirical geothermobarometry for pelitic systems, *American Mineralogist*, *70*, 702-709.

Spear, F. S., J. Selverstone, D. Hickmott, P. Crowley, and K. V. Hodges (1985), P-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terrains – Reply, *Geology*, *13*, 81.

Tull, J. F., J. M. Bartley, K. V. Hodges, A. Andresen, M. G. Steltenpohl, and J. M. White (1985), The Caledonides in the Ofoten region (68°N), north Norway: Key aspects of tectonic evolution, in *The Caledonide Orogen: Scandinavia and Related Areas*, edited by D.G, pp. 553-568, John Wiley and Sons, New York.

Wernicke, B. P., K. V. Hodges, and J. D. Walker (1986), Geological setting of the Tucki Mountain area, Death Valley national Monument, California, in *Mesozoic and Cenozoic Structural Evolution of Selected Areas, East-Central California Guidebook*, edited by G. C. Dunne, Geological Society of America, Boulder, CO.

Burchfiel, B. C., K. V. Hodges, and L. H. Royden (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*, *92*, 10422-10426.

Hodges, K. V., and L. W. McKenna (1987), Realistic propagation of uncertainties in geologic thermobarometry, *American Mineralogist*, *72*, 671-680.

Hodges, K. V., J. D. Walker, and B. P. Wernicke (1987), Footwall structural evolution of the Tucki Mountain detachment system, Death Valley region, southeastern California, in *Continental Extensional Tectonics*, edited by M. P. Coward, J. F. Dewey and P. L. Hancock, pp. 393-408, Geological Society of London Special Publications 28, Oxford, UK.

Hodges, K. V., M. S. Hubbard, and D. S. Silverberg (1988), Metamorphic constraints on the thermal evolution of the central Himalayan Orogen, *Philosophical Transactions of the Royal Society of London Series A – Mathematical, Physical, and Engineering Sciences*, *326*, 257-280.

Hodges, K. V., P. LeFort, and A. Pêcher (1988), Possible thermal buffering by crustal anatexis in collisional orogens: Thermobarometric evidence from the Nepalese Himalaya, *Geology*, *16*, 707-710.

Hodges, K. V., and D. S. Silverberg (1988), Thermal evolution of the Greater Himalaya, Garhwal, India, *Tectonics*, *7*, 583-600.

McKenna, L. W., and K. V. Hodges (1988), Accuracy versus precision in locating reaction boundaries: Implications for the garnet-plagioclase-aluminum silicate-quartz geobarometer, *American Mineralogist*, *73*, 1205-1208.

Ruppel, C., L. Royden, and K. V. Hodges (1988), Thermal modeling of extensional tectonics: application to pressure-temperature-time histories of metamorphic rocks, *Tectonics*, *7*, 947-957.

Saltzer, S. D., and K. V. Hodges (1988), The Middle Mountain shear zone, southern Idaho: Kinematic analysis of a Tertiary, high-temperature detachment, *Geological Society of America Bulletin*, *100*, 96-103.

Wernicke, B. P., J. D. Walker, and K. V. Hodges (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 *This Extended Land: Geological Journeys in the Southern Basin and Range*, edited by D. L. Weide and M. L. Faber, pp. 58-63, Geological Society of America Cordilleran Section Field Trip Guidebook, Boulder, CO.

Hodges, K. (1989), The Geological Evolution of Tibet – Academia Sinica Geotraverse of the Qinghai-Xizang Plateau, *Science*, *244*, 1202-1203.

Hodges, K. V., P. LeFort, and A. Pêcher (1989), Possible thermal buffering by crustal anatexis in collisional orogens: thermobarometric evidence from the Nepalese Himalaya – Reply, *Geology*, *17*, 575-576.

Hodges, K. V., L. W. McKenna, J. Stock, J. Knapp, L. Page, K. Sternlof, D. Silverberg, G. Wüst, and J. Walker (1989), Evolution of extensional basins and Basin and Range topography west of Death Valley, California, *Tectonics*, *8*, 453-467.

Stock, J. M., and K. V. Hodges (1989), Pre-Pliocene extension around the Gulf of California, and the transfer of Baja California to the Pacific Plate, *Tectonics*, *8*, 99-115.

Wernicke, B. P., J. K. Snow, G. J. Axen, B. C. Burchfiel, K. V. Hodges, J. D. Walker, and P. L. Guth (1989), *IGC Field Trip T138: Extensional Tectonics in the Basin and Range Province Between the Southern Sierra Nevada and the Colorado Plateau*, American Geophysical Union, Washington, DC.

Chen, Z., Y. Liu, K. V. Hodges, B. C. Burchfiel, L. H. Royden, and C. Deng (1990), The Kangmar Dome - a Metamorphic Core Complex in Southern Xizang (Tibet), *Science*, *250*, 1552-1556.

Hodges, K. V., L. W. McKenna, and M. B. Harding (1990), Structural unroofing of the central Panamint Mountains, Death Valley region, SE California, in *Basin and Range Extensional*

Tectonics Near the Latitude of Las Vegas, NV, edited by B. P. Wernicke, pp. 377-390, Geological Society of America Memoir 176, Boulder, CO.

Hodges, K. V., and J. D. Walker (1990), Petrologic constraints on the unroofing history of the Funeral Mountain metamorphic core complex, California, *Journal of Geophysical Research*, *95*, 8437-8445.

McKenna, L. W., and K. V. Hodges (1990), Constraints on the kinematics and timing of late Miocene-Recent extension between the Panamint and Black Mountains, southeastern California, in *Basin and Range Extensional Tectonics at the Latitude of Las Vegas*, edited by B. P. Wernicke, pp. 363-376, Geological Society of America Memoir 176, Boulder, CO.

Stock, J. M., and K. V. Hodges (1990), Miocene to Recent structural development of an extensional accommodation zone, northeastern Baja California, Mexico, *Journal of Structural Geology*, *12*, 315-328.

Copeland, P., T. M. Harrison, K. V. Hodges, P. Maruéjol, P. LeFort, and A. Pêcher (1991), An Early Pliocene thermal disturbance of the Main Central Thrust, central Nepal: Implications for Himalayan tectonics, *Journal of Geophysical Research*, *96*, 8475-8500.

Hodges, K. V. (1991), Pressure-Temperature-Time Paths, *Annual Review of Earth and Planetary Science*, *19*, 207-236.

Hubbard, M., L. Royden, and K. Hodges (1991), Constraints on unroofing rates in the High Himalaya, Eastern Nepal, *Tectonics*, *10*, 287-298.

Hurlow, H. A., A. W. Snoke, and K. V. Hodges (1991), Temperature and pressure of mylonitization in a Tertiary extensional shear zone, Ruby Mountains - East Humboldt Range, Nevada: Tectonic implications, *Geology*, *19*, 82-86.

Applegate, J. D. R., J. D. Walker, and K. V. Hodges (1992), Late Cretaceous extensional unroofing in the Funeral Mountains metamorphic core complex, California, *Geology*, *20*, 519-522.

Burchfiel, B. C. (1992), *The South Tibetan detachment system, Himalayan orogen: extension contemporaneous with and parallel to shortening in a collisional mountain belt*, Geological Society of America, Boulder, CO.

Hodges, K. V. (1992), Commentary on General Tectonics, 1992, in *SAIC-91/8001: Report of the Peer Review Panel on the Early Site Suitability Evaluation of the Potential Repository Site at Yucca Mountain, Nevada*, edited, pp. 347-400, Science Applications International Corporation, San Diego, CA.

Hodges, K. V., R. R. Parrish, T. B. Housh, D. Lux, B. C. Burchfiel, L. Royden, and Z. Chen (1992), Simultaneous Miocene extension and shortening in the Himalayan orogen, *Science*, *258*, 1466-1470.

Hodges, K. V., A. W. Snoke, and H. A. Hurlow (1992), Thermal evolution of a portion of the Sevier hinterland: the northern Ruby Mountains - East Humboldt Range and Wood Hills, northeastern Nevada, *Tectonics*, *11*, 154-164.

Hodges, K. V., and J. D. Walker (1992), Extension in the Cretaceous Sevier orogen, North American Cordillera, *Geological Society of America Bulletin*, *104*, 560-569.

Macfarlane, A. M., K. V. Hodges, and D. Lux (1992), A structural analysis of the Main Central thrust zone, Langtang National Park, central Nepal Himalaya, *Geological Society of America Bulletin*, *104*, 1389-1402.

Hames, W. E., and K. V. Hodges (1993), Laser $^{40}Ar/^{39}Ar$ evaluation of slow cooling and episodic loss of ^{40}Ar from a sample of polymetamorphic muscovite, *Science*, *261*, 1721-1723.

Hodges, K. V., and J. D. Applegate (1993), Age of Tertiary extension, Bitterroot metamorphic core complex, Montana-Idaho, *Geology*, *21*, 161-164.

Hodges, K. V., B. C. Burchfiel, L. H. Royden, Z. Chen, and Y. Liu (1993), The metamorphic signature of contemporaneous extension and shortening in the central Himalayan orogen: Data from the Nyalam transect, southern Tibet, *Journal of Metamorphic Geology*, *11*, 721-737.

Wernicke, B., J. K. Snow, K. V. Hodges, and J. D. Walker (1993), Structural constraints on Neogene tectonism in the southern Great Basin, in *Crustal evolution of the Great Basin and the Sierra Nevada: Geological Society of America, Cordilleran/Rocky Mountains Sections Meeting, Field Trip Guidebook*, edited by M. M. Lahren, J. H. Trexler and C. Spinosa, pp. 453-479, Department of Geological Sciences, University of Nevada, Reno, Reno, NV.

Applegate, J. D. R., and K. V. Hodges (1994), Empirical evaluation of solution models for pelitic minerals and their application to thermobarometry, *Contributions to Mineralogy and Petrology*, *117*, 56-65.

Guillot, S., K. V. Hodges, P. LeFort, and A. Pêcher (1994), New constraints on the age of the Manaslu leucogranite: Evidence for episodic tectonic denudation in the central Himalayas, *Geology*, *23*, 559-562.

Hodges, K. (1994), Geoscience Highlights: Structural Geology and Tectonics, *Geotimes*, *39*, 34-35.

Hodges, K. V., W. E. Hames, and S. A. Bowring (1994), $^{40}Ar/^{39}Ar$ age gradients in micas from a high-temperature-low-pressure metamorphic terrain: evidence for very slow cooling and implications for the interpretation of age spectra, *Geology*, *22*, 55-58.

Hodges, K. V., W. E. Hames, W. Olszewski, B. C. Burchfiel, L. H. Royden, and Z. Chen (1994), Thermobarometric and $^{40}Ar/^{39}Ar$ geochronologic constraints on Eohimalayan metamorphism in the Dinggyê area, southern Tibet, *Contributions to Mineralogy and Petrology*, *117*, 151-163.

House, M. A., and K. V. Hodges (1994), Limits on the tectonic significance of rapid cooling events in extensional settings; insights from the Bitterroot metamorphic core complex, Idaho-Montana, *Geology*, *22*, 1007-1010.

Ruppel, C., and K. V. Hodges (1994), Pressure-temperature-time paths from two-dimensional thermal models: Prograde, retrograde, and inverted metamorphism, *Tectonics*, *13*, 17-44.

Ruppel, C., and K. V. Hodges (1994), Role of horizontal thermal conduction and finite time thrust emplacement in simulation of pressure-temperature-time paths, *Earth and Planetary Science Letters*, *123*, 49-60.

Applegate, J. D. R., and K. V. Hodges (1995), Mesozoic and Cenozoic extension recorded by metamorphic rocks in the Funeral Mountains, California, *Geological Society of America Bulletin*, *107*, 1063-1076.

Coleman, M., and K. Hodges (1995), Evidence for Tibetan Plateau uplift before 14 Myr ago from a new minimum age for east-west extension, *Nature*, *374*, 49-52.

Guillot, S., K. V. Hodges, P. LeFort, and A. Pêcher (1995), New constraints on the age of the Manaslu leucogranite; evidence for episodic tectonic denudation in the central Himalaya – Reply, *GEOLOGY*, *23*, 479-480.

Hodges, K. V., and S. A. Bowring (1995), $^{40}Ar/^{39}Ar$ thermochronology of isotopically zoned micas; insights from the southwestern USA Proterozoic orogen, *Geochimica et Cosmochimica Acta*, *59*, 3205-3220.

House, M. A., and K. V. Hodges (1995), Limits on the tectonic significance of rapid cooling events in extensional settings; insights from the Bitterroot metamorphic core complex, Idaho-Montana – Reply, *Geology*, *23*, 1052-1053.

Hodges, K. V., R. R. Parrish, and M. P. Searle (1996), Tectonic evolution of the central Annapurna Range, Nepalese Himalayas, *Tectonics*, *15*, 1264-1291.

Huerta, A. D., L. H. Royden, and K. V. Hodges (1996), The interdependence of deformational and thermal processes in mountain belts, *Science*, *273*, 637-639.

Parrish, R. R., and K. V. Hodges (1996), Isotopic constraints on the age and provenance of the Lesser and Greater Himalayan sequences, Nepalese Himalaya, *Geological Society of America Bulletin*, *108*, 904-911.

Vannay, J. C., and K. V. Hodges (1996), Tectonometamorphic evolution of the Himalayan metamorphic core between the Annapurna and Dhaulagiri, central Nepal, *Journal of Metamorphic Geology*, *14*, 635-656.

House, M. A., K. V. Hodges, and S. A. Bowring (1997), Petrological and geochronological constraints on regional metamorphism along the northern border of the Bitterroot batholith, *Journal of Metamorphic Geology*, *15*, 753-764.

Searle, M. P., R. R. Parrish, K. V. Hodges, A. Hurford, M. W. Ayers, and M. J. Whitehouse (1997), Shisha Pangma leucogranite, south Tibetan Himalaya: Field relations, geochemistry, age, origin, and emplacement, *Journal of Geology*, *105*, 295-317.

Coleman, M. E., and K. V. Hodges (1998), Contrasting Oligocene and Miocene thermal histories from the hanging wall and footwall of the South Tibetan detachment in the central Himalaya from $^{40}Ar/^{39}Ar$ thermochronology, Marsyandi Valley, central Nepal, *Tectonics*, *17*, 726-740.

Guillot, S., S. Pochat, N. Zakarian, and K. V. Hodges (1998), Metamorphic evolution of the Kangmar dome (Se-Xizang, Tibet): implications for the internal Himalayan zones, *Comptes Rendus des Académie des sciences – Sciences de la terre et des planètes*, *327*, 577-582.

Hodges, K., S. Bowring, K. Davidek, D. Hawkins, and M. Krol (1998), Evidence for rapid displacement on Himalayan normal faults and the importance of tectonic denudation in the evolution of mountain ranges, *Geology*, *26*, 483-486.

Hodges, K. V. (1998), $^{40}Ar/^{39}Ar$ geochronology using the laser microprobe, in *Reviews in Economic Geology 7: Applications of Microanalytical Techniques to Understanding Mineralizing Processes*, edited by M. A. McKibben and W. C. Shanks, pp. 53-72, Society of Economic Geologists, Tuscaloosa, AL.

Hodges, K. V. (1998), The thermodynamics of Himalayan orogenesis, in *What Drives Metamorphism and Metamorphic Reactions?*, edited by P. J. Treloar and P. O'Brien, pp. 7-22, Geological Society Special Publication 138, London.

Huerta, A. D., L. H. Royden, and K. V. Hodges (1998), The thermal structure of collisional orogens as a response to accretion, erosion, and radiogenic heating, *Journal of Geophysical Research*, *103*, 15287-15302.

Friedrich, A. M., S. A. Bowring, M. W. Martin, and K. V. Hodges (1999), Short-lived continental magmatic arc at Connemara, western Irish Caledonides: Implications for the age of the Grampian orogeny, *Geology*, *27*, 27-30.

Friedrich, A. M., K. V. Hodges, S. A. Bowring, and M. W. Martin (1999), Geochronological constraints on the magmatic, metamorphic and thermal evolution of the Connemara Caledonides, western Ireland, *Journal of the Geological Society*, *156*, 1217-1230.

Hodges, K., S. Bowring, K. Davidek, D. Hawkins, and M. Krol (1999), Evidence for rapid displacement on Himalayan normal faults and the importance of tectonic denudation in the evolution of mountain ranges – Reply, *Geology*, *27*, 287.

Hubbard, M. S., E. S. Grew, K. V. Hodges, M. G. Yates, and N. N. Pertsev (1999), Neogene cooling and exhumation of upper-amphibolite-facies 'whiteschists' in the southwest Pamir Mountains, Tajikistan, *Tectonophysics*, *305*, 325-337.

Huerta, A. D., L. H. Royden, and K. V. Hodges (1999), The effects of accretion, erosion and radiogenic heat on the metamorphic evolution of collisional orogens, *Journal of Metamorphic Geology*, *17*, 349-366.

Walker, J. D., M. W. Martin, S. A. Bowring, M. P. Searle, D. J. Waters, and K. V. Hodges (1999), Metamorphism, melting, and extension: Age constraints from the High Himalayan Slab of southeast Zanskar and northwest Lahaul, *Journal of Geology*, *107*, 473-495.

Chan, Y. C., J. M. Crespi, and K. V. Hodges (2000), Dating cleavage formation in slates and phyllites with the $^{40}Ar/^{39}Ar$ laser microprobe: an example from the western New England Appalachians, USA, *Terra Nova*, *12*, 264-271.

Hartz, E. H., A. Andresen, M. W. Martin, and K. V. Hodges (2000), U-Pb and $^{40}Ar/^{39}Ar$ constraints on the Fjord Region Detachment Zone: a long-lived extensional fault in the central East Greenland Caledonides, *Journal of the Geological Society*, *157*, 795-809.

Hodges, K. V. (2000), Tectonics of the Himalaya and southern Tibet from two perspectives, *Geological Society of America Bulletin*, *112*, 324-350.

Nicolaysen, K., F. A. Frey, K. V. Hodges, D. Weis, and A. Giret (2000), $^{40}Ar/^{39}Ar$ geochronology of flood basalts from the Kerguelen Archipelago, southern Indian Ocean: implications for Cenozoic eruption rates of the Kerguelen plume, *Earth and Planetary Science Letters*, *174*, 313-328.

Snyder, N. P., and K. V. Hodges (2000), Depositional and tectonic evolution of a supradetachment basin: $^{40}Ar/^{39}Ar$ geochronology of the Nova Formation, Panamint Range, California, *Basin Research*, *12*, 19-30.

Godin, L., R. R. Parrish, R. L. Brown, and K. V. Hodges (2001), Crustal thickening leading to exhumation of the Himalayan Metamorphic core of central Nepal: Insight from U-Pb geochronology and $^{40}Ar/^{39}Ar$ thermochronology, *Tectonics*, *20*, 729-747.

Hartz, E. H., A. Andresen, K. V. Hodges, and M. W. Martin (2001), Syncontractional extension and exhumation of deep crustal rocks in the east Greenland Caledonides, *Tectonics*, *20*, 58-77.

Hodges, K. V., J. M. Hurtado, and K. X. Whipple (2001), Southward extrusion of Tibetan crust and its effect on Himalayan tectonics, *Tectonics*, *20*, 799-809.

Hurtado, J. M., K. V. Hodges, and K. X. Whipple (2001), Neotectonics of the Thakkhola graben and implications for recent activity on the South Tibetan fault system in the central Nepal Himalaya, *Geological Society of America Bulletin*, *113*, 222-240.

Viskupic, K., and K. V. Hodges (2001), Monazite-xenotime thermochronometry: methodology and an example from the Nepalese Himalaya, *Contributions to Mineralogy and Petrology*, *141*, 233-247.

Hartz, E. H., E. A. Eide, A. Andresen, P. Midbøe, K. V. Hodges, and S. N. Kristiansen (2002), $^{40}Ar/^{39}Ar$ geochronology and structural analysis: Basin evolution and detrital feedback mechanisms, Hold with Hope region, East Greenland, *Norwegian Journal of Geology*, *82*, 341-358.

House, M. A., S. A. Bowring, and K. V. Hodges (2002), Implications of middle Eocene epizonal plutonism for the unroofing history of the Bitterroot metamorphic core complex, Idaho-Montana, *Geological Society of America Bulletin*, *114*, 448-461.

Kirby, E., P. W. Reiners, M. A. Krol, K. X. Whipple, K. V. Hodges, K. A. Farley, W. Q. Tang, and Z. L. Chen (2002), Late Cenozoic evolution of the eastern margin of the Tibetan Plateau: Inferences from $^{40}Ar/^{39}Ar$ and (U-Th)/He thermochronology, *Tectonics*, *21*, doi: 10.1029/2000tc001246.

White, A. P., and K. V. Hodges (2002), Multistage extensional evolution of the central East Greenland Caledonides, *Tectonics*, *21*, doi: 10.1029/2001tc001308.

White, A. P., K. V. Hodges, M. W. Martin, and A. Andresen (2002), Geologic constraints on middle-crustal behavior during broadly synorogenic extension in the central East Greenland Caledonides, *International Journal of Earth Sciences*, *91*, 187-208.

Brewer, I. D., D. W. Burbank, and K. V. Hodges (2003), Modeling detrital cooling-age populations: insights from two Himalayan catchments, *Basin Research*, *15*, 305-320.

Carr, C. E., D. J. Newman, and K. V. Hodges (2003), Geologic traverse planning for planetary EVA, *33rd International Conference on Environmental Systems, Vancouver, Canada, 2003. Society of Automotive Engineers, Inc., Warrendale, Pennsylvania*, SAE paper number 2003-2001-2416.

Hodges, K. V. (2003), Geochronology and thermochronology in orogenic systems, in *Treatise on Geochemistry, Volume 3: The Crust*, edited by R. L. Rudnick, pp. 263-292, Elsevier Science, Amsterdam.

White, A. P., and K. V. Hodges (2003), Pressure-temperature-time evolution of the Central East Greenland Caledonides: quantitative constraints on crustal thickening and synorogenic extension, *Journal of Metamorphic Geology*, *21*, 875-897.

Wobus, C. W., K. V. Hodges, and K. X. Whipple (2003), Has focused denudation sustained active thrusting at the Himalayan topographic front?, *Geology*, *31*, 861-864.

Clift, P. D., I. H. Campbell, M. S. Pringle, A. Carter, X. Zhang, K. V. Hodges, A. A. Khan, and C. M. Allen (2004), Thermochronology of the modern Indus River bedload: New insight into the controls on the marine stratigraphic record, *Tectonics*, *23*, doi: 10.1029/2003tc001559.

Hodges, K. V., C. Wobus, K. Ruhl, T. Schildgen, and K. X. Whipple (2004), Quaternary deformation, river steepening, and heavy precipitation at the front of the Higher Himalayan ranges, *Earth and Planetary Science Letters*, *220*, 379-389.

Boyce, J. W., and K. V. Hodges (2005), U and Th zoning in Cerro de Mercado (Durango, Mexico) fluorapatite: Insights regarding the impact of recoil redistribution of radiogenic ^{4}He on (U-Th)/He thermochronology, *Chemical Geology*, *219*, 261-274.

Boyce, J. W., K. V. Hodges, W. J. Olszewski, and M. J. Jercinovic (2005), He diffusion in monazite: Implications for (U-Th)/He thermochronometry, *Geochemistry Geophysics Geosystems*, *6*, doi: 10.1029/2005GC001058.

Hodges, K. V., K. W. Ruhl, C. W. Wobus, and M. S. Pringle (2005), ^{40}Ar/^{39}Ar thermochronology of detrital minerals, in *Low-Temperature Thermochronology: Techniques, Interpretations, and Applications*, edited by P. W. Reiners and T. A. Ehlers, pp. 239-257, Mineralogical Society of America, Reviews in Mineralogy and Geochemistry, Volume 58.

Ruhl, K. W., and K. V. Hodges (2005), The use of detrital mineral cooling ages to evaluate steady state assumptions in active orogens: An example from the central Nepalese Himalaya, *Tectonics*, *24*, doi: 10.1029/2005GC001058.

Viskupic, K., K. V. Hodges, and S. A. Bowring (2005), Timescales of melt generation and the thermal evolution of the Himalayan metamorphic core, Everest region, eastern Nepal, *Contributions to Mineralogy and Petrology*, *149*, 1-21.

Wobus, C., A. Heimsath, K. Whipple, and K. Hodges (2005), Active out-of-sequence thrust faulting in the central Nepalese Himalaya, *Nature*, *434*, 1008-1011.

Boyce, J. W., K. V. Hodges, W. J. Olszewski, M. J. Jercinovic, B. Carpenter, and P. W. Reiners (2006), Laser microprobe (U-Th)/He geochronology, *Geochimica et Cosmochimica Acta*, *70*, 3031-3039.

Brewer, I. D., D. W. Burbank, and K. V. Hodges (2006), Downstream development of detrital cooling-age signal: Insights from $^{40}Ar/^{39}Ar$ muscovite thermochronology in the Nepalese Himalaya, in *Tectonics, Climate, and Landscape Evolution, Geological Society of America Special Paper 398*, edited by S. D. Willett, N. Hovius, M. T. Brandon and D. Fisher, pp. 321-338, Geological Society of America, Boulder, CO.

Clift, P. D., A. Carter, I. H. Campbell, M. S. Pringle, N. Van Lap, C. M. Allen, K. V. Hodges, and M. Thanh Tan (2006), Thermochronology of mineral grains in the Red and Mekong Rivers, Vietnam: Provenance and exhumation implications for Southeast Asia, *Geochemistry Geophysics Geosystems*, *7*, doi: 10.1029/2006GC001336.

Condon, D. J., K. V. Hodges, G. I. Alsop, and A. White (2006), Laser ablation $^{40}Ar/^{39}Ar$ dating of metamorphic fabrics in the Caledonides of north Ireland, *Journal of the Geological Society*, *163*, 337-345.

Flowers, R. M., K. H. Mahan, S. A. Bowring, M. L. Williams, M. S. Pringle, and K. V. Hodges (2006), Multistage exhumation and juxtaposition of lower continental crust in the western Canadian Shield: Linking high-resolution U-Pb and $^{40}Ar/^{39}Ar$ thermochronometry with pressure-temperature-deformation paths, *Tectonics*, *25*, doi: 10.1029/2005tc001912.

Hartz, E. H., S. N. Kristiansen, A. Calvert, K. V. Hodges, and M. Heeremans (2006), Structural, thermal and rheological control of the late Paleozoic basins in East Greenland, *Proceedings of the Fourth International Conference on Arctic Margins*, 58-76.

Hodges, K. V. (2006), A synthesis of the Channel Flow-Extrusion hypothesis as developed for the Himalayan-Tibetan orogenic system, in *Channel Flow, Ductile Extrusion, and Exhumation of Lower-Middle Crust in Continental Collision Zones*, edited by R. Law, M. Searle and L. Godin, pp. 71-90, Geological Society Special Publication 268, London.

Huntington, K. W., A. E. Blythe, and K. V. Hodges (2006), Climate change and Late Pliocene acceleration of erosion in the Himalaya, *Earth and Planetary Science Letters*, *252*, 107-118.

Huntington, K. W., and K. V. Hodges (2006), A comparative study of detrital mineral and bedrock age-elevation methods for estimating erosion rates, *Journal of Geophysical Research – Earth Surface*, *111*, doi: 10.1029/2005JF000454.

Wobus, C. W., K. X. Whipple, and K. V. Hodges (2006), Neotectonics of the central Nepalese Himalaya: Constraints from geomorphology, detrital $^{40}Ar/^{39}Ar$ thermochronology, and thermal modeling, *Tectonics*, *25*, doi: 10.1029/2005TC001935.

Epstein, A. W., R. Bras, K. Hodges, and A. Lipson (2007), Team-oriented, project-based learning as a path to undergraduate research: A case study, in *Developing and Sustaining a Research-Supportive Curriculum: A Compendium of Successful Practices* edited by K. K. E. T. E. Karukstis, pp. 69-86, The Council on Undergraduate Research, Washington, DC.

Holm, D. K., D. A. Schneider, S. Rose, C. Manusco, M. McKenzie, K. A. Foland, and K. V. Hodges (2007), Proterozoic metamorphism and cooling in the southern Lake Superior region, North America and its bearing on crustal evolution, *Precambrian Research*, *157*, 106-126.

Huntington, K. W., T. A. Ehlers, K. V. Hodges, and D. M. Whipp (2007), Topography, exhumation pathway, age uncertainties, and the interpretation of thermochronometer data, *Tectonics*, *26*, doi: 10.1029/2007TC002108.

Lipson, A., A. W. Epstein, R. Bras, and K. Hodges (2007), Students' perceptions of Terrascope, a project-based freshman learning community, *Journal of Science Education and Technology*, *16*, doi: 10.1007/s10956-10007-19046-10956.

Schildgen, T. F., K. V. Hodges, K. X. Whipple, P. W. Reiners, and M. S. Pringle (2007), Uplift of the western margin of the Andean plateau revealed from canyon incision history, southern Peru, *Geology*, *35*, 523-526.

Whipp, D. M., T. A. Ehlers, A. E. Blythe, K. W. Huntington, K. V. Hodges, and D. W. Burbank (2007), Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermokinematic and thermochronometer age prediction model, *Tectonics*, *26*, doi: 10.1029/2006TC001991.

Clift, P. D., K. V. Hodges, D. Heslop, R. Hannigan, H. Van Long, and G. Calves (2008), Correlation of Himalayan exhumation rates and Asian monsoon intensity, *Nature Geoscience*, *1*, 875-880.

Wobus, C., M. Pringle, K. Whipple, and K. Hodges (2008), A Late Miocene acceleration of exhumation in the Himalayan crystalline core, *Earth and Planetary Science Letters*, *269*, 1-10.

Boyce, J. W., K. V. Hodges, D. King, J. L. Crowley, M. Jercinovic, N. Chatterjee, S. A. Bowring, and M. Searle (2009), Improved confidence in (U-Th)/He thermochronology using the laser microprobe: An example from a Pleistocene leucogranite, Nanga Parbat, Pakistan, *Geochemistry Geophysics Geosystems*, *10*, doi: 10.1029/2009GC002497.

Fong, T., A. Abercrombie, M. G. Bualat, M. C. Deans, K. V. Hodges, J. M. Hurtado, R. Landis, P. Lee, and D. Schreckenghost (2009), Assessment of robotic recon for human exploration of the Moon, *Proceedings of the 60th International Astronautical Congress*, IAC-09-A05.02-B03.06.07.

Renne, P. R., A. L. Deino, W. E. Hames, M. T. Heizler, S. R. Hemming, K. V. Hodges, A. A. P. Koppers, D. F. Mark, L. E. Morgan, D. Phillips, B. S. Singer, B. D. Turrin, I. M. Villa, M.

Villeneuve, and J. R. Wijbrans (2009), Data reporting norms for $^{40}Ar/^{39}Ar$ geochronology, *Quaternary Geochronology*, *4*, 346-352.

Schildgen, T. F., T. A. Ehlers, D. M. Whipp, Jr., M. C. van Soest, K. X. Whipple, and K. V. Hodges (2009), Quantifying canyon incision and Andean Plateau surface uplift, southwest Peru: A thermochronometer and numerical modeling approach, *Journal of Geophysical Research-Earth Surface*, *114*, doi: 10.1029/2009JF001305.

Schildgen, T. F., K. V. Hodges, K. X. Whipple, M. S. Pringle, M. van Soest, and K. Cornell (2009), Late Cenozoic structural and tectonic development of the western margin of the central Andean Plateau in southwest Peru, *Tectonics*, *28*, doi: 10.1029/2009TC002590.

Akin, D. L., D. L. Bowden, S. Saripalli, and K. Hodges (2010), Developing technologies and techniques for robot-augmented human surface science, in *Proceedings of AIAA Space 2010, Paper AIAA 2010-8801*, edited.

Fong, T., A. Abercromby, M. G. Bualat, M. C. Deans, K. V. Hodges, J. M. Hurtado, Jr., R. Landis, P. Lee, and D. Schreckenghost (2010), Assessment of robotic recon for human exploration of the Moon, *Acta Astronautica*, *67*, 1176-1188.

Fong, T., et al. (2010), Robotic Follow-up for Human Exploration, in *Proceedings of AIAA Space 2010, Paper AIAA 2010-8605*, edited, pp. 1-24, Anaheim, CA.

Ouimet, W., K. Whipple, L. Royden, P. Reiners, K. Hodges, and M. Pringle (2010), Regional incision of the eastern margin of the Tibetan Plateau, *Lithosphere*, *2*, 50-63.

Bualat, M. G., et al. (2011), Robotic recon for human exploration: Method, assessment, and lessons learned, in *Analogs for Planetary Exploration*, edited by W. B. Garry and J. E. Bleacher, pp. 117-135, Geological Society of America Special Paper 483, Boulder, CO.

Cooper, F. J., M. C. van Soest, and K. V. Hodges (2011), Detrital zircon and apatite (U-Th)/He geochronology of intercalated baked sediments: A new approach to dating young basalt flows, *Geochemistry Geophysics Geosystems*, *12*, doi: 10.1029/2011GC003650.

Hodges, K. V., and H. H. Schmitt (2011), A new paradigm for advanced planetary field geology developed through analog experiments on Earth, in *Analogs for Planetary Exploration*, edited by W. B. Garry and J. E. Bleacher, pp. 17-31, Geological Society of America Special Paper 483, Boulder, CO.

Schmitt, H. H., A. W. Snoke, M. A. Helper, J. M. Hurtado, K. Hodges, V., and J. W. Rice (2011), Motives, methods, and essential preparation for planetary field geology on the Moon and Mars, in *Analogs for Planetary Exploration*, edited by W. B. Garry and J. E. Bleacher, pp. 1-15, Geological Society of America Special Paper 483, Boulder, CO.

van Soest, M. C., K. V. Hodges, J.-A. Wartho, M. B. Biren, B. D. Monteleone, J. Ramezani, J. G. Spray, and L. M. Thompson (2011), (U-Th)/He dating of terrestrial impact structures: The Manicouagan example, *Geochemistry Geophysics Geosystems*, *12*, doi: 10.1029/2010GC003465.

van Soest, M. C., B. D. Monteleone, K. V. Hodges, and J. W. Boyce (2011), Laser depth profiling studies of helium diffusion in Durango fluorapatite, *Geochimica Et Cosmochimica Acta*, *75*, 2409-2419.

Cooper, F. J., B. A. Adams, C. S. Edwards, and K. V. Hodges (2012), Large normal-sense displacement on the South Tibetan fault system in the eastern Himalaya, *Geology*, *40*, 971-974.

Hodges, K. V. (2012), Solving Complex Problems, *Science*, *338*, 1164-1165.

Long, S. P., N. McQuarrie, T. Tobgay, I. Coutand, F. J. Cooper, P. W. Reiners, J.-A. Wartho, and K. V. Hodges (2012), Variable shortening rates in the eastern Himalayan thrust belt, Bhutan: Insights from multiple thermochronologic and geochronologic data sets tied to kinematic reconstructions, *Tectonics*, *31*, doi: 10.1029/2012TC003155.

Wang, E., E. Kirby, K. P. Furlong, M. van Soest, G. Xu, X. Shi, P. J. J. Kamp, and K. V. Hodges (2012), Two-phase growth of high topography in eastern Tibet during the Cenozoic, *Nature Geoscience*, *5*, 640-645.

Adams, B. A., K. V. Hodges, M. C. van Soest, and K. X. Whipple (2013), Evidence for Pliocene-Quaternary normal faulting in the hinterland of the Bhutan Himalaya, *Lithosphere*, *5*, 438-449.

Cooper, F. J., K. V. Hodges, and B. A. Adams (2013), Metamorphic constraints on the character and displacement of the South Tibetan fault system, central Bhutanese Himalaya, *Lithosphere*, *5*, 67-81.

Hodges, K. V., and B. A. Adams (2013), The influence of middle and lower crustal flow on the landscape evolution of orogenic plateaus: Insights from the Himalaya and Tibet, in *Treatise on Geomorphology*, edited by J. F. Shroder, pp. 350-369, Academic Press, San Diego.

McDermott, J. A., K. X. Whipple, K. V. Hodges, and M. C. van Soest (2013), Evidence for Plio-Pleistocene north-south extension at the southern margin of the Tibetan Plateau, Nyalam region, *Tectonics*, *32*, 317-333.

Young, K. E., M. C. van Soest, K. V. Hodges, E. B. Watson, B. A. Adams, and P. Lee (2013), Impact thermochronology and the age of Haughton impact structure, Canada, *Geophysical Research Letters*, *40*, 3836-3840.

Foley, D., E. Stump, M. van Soest, K. Whipple, and K. Hodges (2013), Differential movement across Byrd Glacier, Antarctica, as indicated by apatite (U-Th)/He thermochronology and geomorphological analysis, in *Antarctic Palaeoenvironments and Earth-Surface Processes*, edited by M. J. Hambrey, P. F. Barker, P. J. Barrett, V. Bowman, B. Davies, J. L. Smellie and M. Tranter, pp. 350-369, Geological Society Special Publication 381, London.

Tripathy-Lang, A. K., K. Hodges, V., M. C. van Soest, and T. Ahmad (2013), Evidence of Pre-Oligocene emergence of the Indian passive margin and the timing of collision between India and Eurasia, *Lithosphere*, 5, 501-506.

Tripathy-Lang, A. K., B. D. Monteleone, M. C. van Soest, and K. V. Hodges (2013), Laser (U-Th)/He thermochronology of detrital zircons as a tool for studying surface processes in modern catchments, *Journal of Geophysical Research - Earth Surface*, 118, 1333-1341.

Hodges, K. V. (2014), Thermochronology in Orogenic Systems, in *Treatise on Geochemistry, Volume 3: The Crust*, edited by R. L. Rudnick, pp. 281-308, Elsevier Science, Amsterdam.