

**Lon D. Abbott, Ph.D.**  
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## **Professional Experience**

**Senior Instructor and Research Associate, Department of Geological Sciences**  
2007-present                      University of Colorado                      Boulder, CO

Teach courses in field geology, scientific writing, earth materials, physical geology, geology of Colorado, field geology of South Australia. Supervise teaching assistants who instruct the introductory geology lab course. Conduct research into the geologic evolution of the Colorado Rockies, Colorado Plateau, and Queensland, Australia.

**Undergraduate Faculty Mentor, Department of Geological Sciences**  
2019-present                      University of Colorado                      Boulder, CO

Serve as a mentor to the 230 undergraduate geology majors. Assist them to explore career options, guide them through the graduate school application process, and help them select classes relevant for achieving their future goals.

**Writing Instructor**  
Summer 2012, 2019                      UNAVCO                      Boulder, CO

Taught writing course for UNAVCO Research Experiences in Solid Earth Science for Students (RESESS) summer interns. The program is dedicated to increasing the diversity of students entering the geosciences.

**Undergraduate Advisor, Department of Geological Sciences**  
2007-2016                      University of Colorado                      Boulder, CO

Served as advisor to 280 undergraduate geology majors and 50 minors.

**Visiting Research Fellow, School of Earth and Environmental Sciences**  
2014 Jan-June                      University of Wollongong                      Wollongong, NSW, Australia

Collaborated with University of Wollongong faculty to research the tectonic history of eastern Australia as it transitioned from convergent margin to rift zone to passive margin.

**Associate Chair for Undergraduate Studies, Dept. of Geological Sciences**  
2010-2013                      University of Colorado                      Boulder, CO

Assisted the chair to coordinate the department's undergraduate teaching activities. Duties included chairing the curriculum committee and student appeals committee and coordinating issues related to undergraduate courses.

**Faculty Member, Science Department**

2006 – 2007                      Red Rocks Community College                      Lakewood, CO

Taught Physical Geology and Historical Geology courses. Coordinated the geology program, with responsibility for budgets, hiring and supervision of all adjunct instructors, and maintenance of cooperative agreements with high schools and Colorado School of Mines.

**Faculty Member, Environmental Studies Program**

1997-2006                      Prescott College                      Prescott, AZ

Taught introductory and upper-level undergraduate courses in physical geology, historical geology, geomorphology, oceanography, environmental geology, field methods, religion and science, and rock climbing and geology. Faculty serve without rank; I held a 5-year contract, the longest granted by the college.

**Interim Associate Dean for Academic Affairs**

2004-2005                      Prescott College                      Prescott, AZ

Responsible for all student academic issues including conducting academic workshops, monitoring satisfactory academic progress, investigating grievances, and determining disciplinary actions. Served on various committees, including enrollment management to improve student retention, the academic exceptions committee, and the committee that initiated curricular development and changes.

**Faculty, Semester at Sea**

Spring 2003                      University of Pittsburgh                      Pittsburgh, PA

Taught experiential introductory courses in Oceanography and Earth System Science and an upper-division class entitled Environmental Science, Ethics, and Public Policy. Course content tailored to be relevant for ports of call of *S.S. Universe Explorer's* circumnavigation of the globe, with emphasis on interdisciplinary examination of global climate change issue.

**Post-Doctoral Research Associate, Earth Science Department**

1993-1995                      University of California                      Santa Cruz, CA

Determined surface uplift rate for Finisterre Mtns., Papua New Guinea. Entailed assembly of stratigraphic and geomorphic data sets, including biostratigraphy, magnetostratigraphy, strontium isotope stratigraphy, physical rock properties, and digital elevation models.

**Lecturer, Earth Science Department**

1994                      University of California                      Santa Cruz, CA

Taught a graduate-level course in sedimentary basin analysis.

### **Seismic Processing Intern**

1991 Amoco Production Company Denver, CO

Processed marine seismic lines and modeled gravity and magnetic data.

### **Field Operations Manager**

1986-1988 Sorex, Inc. Salt Lake City, UT

Collected and processed aeromagnetic data. Job responsibilities included managing a crew of three to ten at field sites across the United States and in Ghana, West Africa. Managed operations budgets in excess of \$100,000 annually. Authored several of the company's data processing software programs.

### **Education**

#### **Ph.D., Earth Sciences**

1993 University of California Santa Cruz, CA

Thesis title: Structural and sedimentologic history of a progressive arc-continent collision: The Finisterre Range, northern Papua New Guinea.

#### **B.Sc., Geophysics/Geology double major**

1986 University of Utah Salt Lake City, UT

Graduated *magna cum laude*.

### **Professional Service**

1989-present Guest speaker for numerous community groups

1995-present Peer reviewer of manuscripts for professional journals, including: *Geological Society of America Bulletin*, *Tectonophysics*, *Geosphere*, *Marine Geology*, *Sedimentary Geology*, *Tectonics*, *Journal of Southeast Asian Earth Science*, *Lithosphere*, *Geosphere*, *Rocky Mountain Geology*, *The Outcrop*, as well as for NSF proposals, books, GSA field trip guides, and for research proposals submitted to Grand Canyon National Park

2017-2020 Member, Geological Society America Professional Development Committee

2013, 2019 Desktop Reviewer for UNESCO World Heritage Site applications

2013 Chair-Field Trip Committee, 2013 Geological Society America meeting

2009, 2011 Member, Environmental Studies Advisor search committees, CU

2007 Member, Physics-Astronomy faculty search comm., Red Rocks Comm. Coll.

2005-2006 Reviewer of standardized test questions to assess K-4 student achievement relative to NRC National Science Education Standard

1998-2002 Faculty Chair, Prescott College

2000 Member, Prescott College Presidential Search Committee

1999 Member, University of California, Santa Cruz Ph.D. Qualifying Exam Committee for candidate Laura Wallace

1998 Chair, Prescott College Academic Dean Search Committee

1998 Member, Prescott College Env't Policy Faculty Search Committee

## **Awards**

- 2019 Marinus Smith Award from CU Boulder for advancing the quality of education and the student experience at CU Boulder
- 2017 Rocky Mountain Association of Geologists' Geoscience in the Media Award-*Geology Underfoot Along Colorado's Front Range*
- 1992-1993 ARCS Foundation Fellowship
- 1989-1992 National Science Foundation Graduate Fellowship
- 1991 Best Paper Award – GEM Conference of the Australasian Institute of Mining and Metallurgy
- 1991-1992 SEPM Promising Young Geoscientist Award
- 1989-1993 Soc. Exploration Geophysicists Education Foundation Scholarship
- 1988-1989 University of California Regents Fellowship
- 1983-1986 Exxon Undergraduate Scholarship in Geophysics
- 1983 AMAX Field Geology Scholarship

## **Graduate Students Advised**

2017-present Dual CU-University of Wollongong PhD candidate Jamie Glass is using cosmogenic radionuclide dating and (U-Th)/He geochronology to trace the evolution of eastern Australia's Great Escarpment. Co-advisors are CU's Rebecca Flowers and University of Wollongong's Alexandru Codilian and Tim Cohen.

## **Professional Memberships**

American Geophysical Union; Geological Society of America

## **Grants Received**

### **University of Colorado Outreach and Engagement Micro Grant**

2019-2020 University of Colorado Boulder, CO

Award for \$1000 to Abbott and Jennifer Stempien to connect students participating in the Collaborative Inquiry-based Research Community (CIRC) with Northglenn High School students through CIRC presentations at Northglenn High and joint field trips

### **Rocky Mountain Biological Laboratory (RMBL) Research Award**

2017-2019 University of Colorado Boulder, CO

Lead PI for \$4960 award to conduct a thermochronology and geomorphology project at RMBL that produced or will produce four undergraduate honors theses by Spring, 2020 and engaged a total of ten undergraduate researchers

### **Chancellor's Award for Excellence in STEM Education**

2016-2018 University of Colorado Boulder, CO

Lead PI for two grants totaling \$16,750 to create a collaborative undergraduate geoscience research community within the Department of Geological Sciences.

### **Rocky Mountain Biological Laboratory (RMBL) Travel Award**

2016                      University of Colorado                      Boulder, CO

Lead PI for \$850 award to conduct a pilot thermochronology project at RMBL that formed Coleman Hiett's Undergraduate Honors Thesis (*summa cum laude*).

**ASSETT Award**

2014                      University of Colorado                      Boulder, CO

\$2800 award to Abbott and Greg Tucker for proposal entitled "Computer Animation of River Terrace Formation."

**Center for Theology and Natural Science - Course Award**

2002                      Prescott College                      Prescott, AZ

\$10,000 grant to support development of course in Religion and Science at Prescott College.

**National Science Foundation**

1991, 1993              University of California                      Santa Cruz, CA

Primary author for two grant proposals to support research that determined the rate of surface uplift for the Finisterre Mountains of Papua New Guinea.

**Geological Society of America and British Petroleum**

1988-1991 University of California                      Santa Cruz, CA

Received multiple research grants in support of my dissertation field research.

**Additional Research Activities**

2017-present      Using optically stimulated luminescence (OSL) to date fluvial terraces in Grand Canyon. Collaborating with USGS researcher Shannon Mahan and University of Wollongong Professor Tim Cohen.

2016-present      Applying (U-Th)/He geochronology to constrain exhumation history of the Colorado Rocky Mountains. Advised undergraduate researchers Coleman Hiett and Noah McCorkel for their undergraduate honors theses at CU and RESESS program student Fatima Niazy in these studies in collaboration with CU Associate Professor Rebecca Flowers.

2013-2016      Collaborated with Don Duggan-Haas of Museum of the Earth and Cornell University to develop Virtual Field Experiences (VFE) and refine a template for VFEs that K-12 teachers can use to create VFEs for their students.

2012-2014      Collaborated with Brooks Ellwood at Louisiana State University on high resolution stratigraphic correlation between Florissant Formation outcrops at Florissant Fossil Beds National Monument.

- 2005-2007 Partner in the Arizona leg of the EarthScope project. Participated in the siting of USArray broadband seismometers. In collaboration with Arizona State University's Matt Fouch, conducting seismic receiver function analysis of USArray data to determine crustal composition and thickness of the southern Colorado Plateau.
- 1998 Member - Global Positioning System crustal motion study in the Papua New Guinea collision zone. Managed three-person crew at data collection sites.
- 1994 Member of Alvin submersible diving program studying fluid flow exiting the Costa Rica accretionary prism. Participated in two dives that located and examined chemosynthetic biological communities.
- 1992 Member of seismic, side-scan sonar, and potential field data collection research cruise in the Solomon Sea.

### Peer-Reviewed Publications

- Abbott, L.D., C.C. Lundstrom, and C. Traub, 2016. Rates of river incision and scarp retreat in eastern and central Grand Canyon over the past half million years: Evidence for passage of a transient knickzone: REPLY, *Geosphere*, v. 11, p. 638-659, doi:10.1130/GES00978.1.
- Abbott, L.D., C.C. Lundstrom, and C. Traub, 2015. Rates of river incision and scarp retreat in eastern and central Grand Canyon over the past half million years: Evidence for passage of a transient knickzone, *Geosphere*, v. 12, doi:10.1130/GES01292.1.
- Abbott, L.D., E.A. Silver, R.S. Anderson, R. Smith, J. Ingle, D.W. Haig, S. Kling, E. Small, J. Galewsky, and W. Sliter, 1997. Measurement of tectonic surface uplift rate in a young collisional mountain belt. *Nature*, v. 385, p. 501-507.
- Abbott, L.D., 1995. Neogene tectonic reconstruction of the Adelbert-Finisterre-New Britain collision, northern Papua New Guinea. *J. of Southeast Asian Earth Sciences*, v. 11, p.33-51.
- Abbott, L.D., E.A. Silver, and J. Galewsky, 1994. Structural evolution of a modern arc-continent collision in northern Papua New Guinea. *Tectonics*, v. 13, p. 1007-1036.
- Abbott, L.D., E.A. Silver, P.R. Thompson, M. Filewicz, C. Schneider, and Abdoerrius, 1994. Stratigraphic constraints on the development and timing of arc-continent collision in northern Papua New Guinea. *Journal of Sedimentary Research*, v. B64, p. 169-183.
- Abbott, L.D. and E.A. Silver, 1991. Geology of the southern Finisterre Range: A case history of modern arc-continent collision. In: Rogerson, R. (Ed.), Proc. of the PNG Geology, Exploration and Mining Conference, Rabaul, p. 1-7.
- Hovius, N., C.P. Stark, M.A. Tutton, and L.D. Abbott, 1998. Landslide-driven drainage network evolution in a pre-steady-state mountain belt: Finisterre Mountains, Papua New Guinea. *Geology*, v. 26, p. 1071-1074.

McAdoo, B.G., D.L. Orange, E.A. Silver, K. McIntosh, L. Abbott, J. Galewsky, L. Kahn, and M. Protti, 1996. Seafloor structural observations, Costa Rica accretionary prism. *Geophysical Research Letters*, v. 23, p. 883-886.

Silver, E.A., L.D. Abbott, et al., 1991. Collision propagation in Papua New Guinea and the Solomon Sea. *Tectonics*, v.10, 863-874

### **Volumes Edited**

Abbott, L.D. and G.S. Hancock, (eds.), 2013. *Classic concepts and new directions: Exploring 125 years of GSA Discoveries in the Rocky Mountain region*. GSA Field Guide 33. Geological Society America. Boulder, CO, 388 p.

### **Textbooks**

Abbott, L., 2010. *Introduction to Geology*. Web textbook for GEOL130 course; Great River Technology. Dubuque, IA. <https://ucboulder.grtep.com/index.cfm/introgeolab/page>.

Abbott, L., 2018. *Geology 1030 Lab Manual*. ISBN 978-1-5339-0454-6. MacMillan Learning. Plymouth, MI.

### **Books for a Popular Audience**

Abbott, L. and T. Cook, 2012. *Geology Underfoot Along Colorado's Front Range*. Mountain Press. Missoula, MT, 338 p.

Abbott, L. and T. Cook, 2007. *Geology Underfoot in Northern Arizona*. Mountain Press. Missoula, MT, 336 p.

Abbott, L., 2006. *Weekend Climbs in Arizona*. The Mountaineers. Seattle, WA, 288 p.

Abbott, L. and T. Cook, 2004. *Hiking the Grand Canyon's Geology*. The Mountaineers Books. Seattle, WA, 301 p.

### **Articles for a Popular Audience**

Abbott, L. and T. Cook, 2019. The Master Sculptor: The Dead Sea Transform. *GeoExPro Magazine*, v. 16, no. 5, p. 60-63.

Abbott, L. and T. Cook, 2019. Morocco's Atlas Range: Exotic Mountains in an Exotic Land. *GeoExPro Magazine*, v. 16, no. 3, p. 31-33.

Abbott, L. and T. Cook, 2019. Lhasa, Tibet: Journey to the Roof of the World. *EARTH Magazine*, v. 64, no. 1/2, p. 56-64.

Abbott, L. and T. Cook, 2018. Victoria Falls: The Smoke That Thunders. *GeoExPro Magazine*, v. 15, no. 5, p. 52-55.

Abbott, L. and T. Cook, 2018. From Sea to Sky in British Columbia. *EARTH Magazine*, vol. 63, no. 8, p. 82-88.

- Abbott, L. and T. Cook, 2018. Rocky Mountain High: Aspen, Colorado. *GeoExPro Magazine*, v. 15, no. 5, p. 42-45.
- Abbott, L. and T. Cook, 2018. Northern Oman: Stunning Canyons, Towering Dunes, and the World's Largest Ophiolite. *EARTH Magazine*, v. 63, no. 5, p. 38-46.
- Abbott, L., 2018. Pairing Geoheritage and Economic Development: China's Guizhou Province Offers a Modern Model. *EARTH Magazine*, v. 63, no. 4, p. 32-39.
- Abbott, L. and T. Cook, 2017. Austria's Salzkammergut: World Heritage Preserved in Salt. *EARTH Magazine*, v. 62, no. 8, p. 38-44.
- Abbott, L. and T. Cook, 2017. Tracking African Animals and Deranged Drainages Across the Kalahari. *EARTH Magazine*, v. 62, no. 6, p. 40-47.
- Abbott, L. and T. Cook, 2017. The Dead Sea Rift: Salty Soaks and Ancient Earthquakes in a Storied Land. *EARTH Magazine*, v. 62, no.1/2, p. 90-96.
- Abbott, L., 2016. The Flatirons: The Story Behind Boulder's Iconic Backdrop. *Boulder Magazine*, Winter/Spring 2016-2017, p. 56-59.
- Abbott, L. and T. Cook, 2016. Exploring an Icon of Patagonia: Chile's Torres del Paine National Park. *EARTH Magazine*, v. 61, no.11/12, p. 38-44.
- Abbott, L. and T. Cook, 2013. Havasu Canyon: Land of Blue-Green Water. *EARTH Magazine*, v. 58, no.3, p. 47-52.
- Abbott, L. and T. Cook, 2012. USArray: Geologists' Earth Telescope. *EARTH Magazine*, v. 57, no.11, p. 28-35.
- Abbott, L. and T. Cook, 2012. Touring Geologic Time in Colorado Springs. *EARTH Magazine*, v. 57, no. 10, p. 52-57.
- Abbott, L. and T. Cook, 2012. Northeastern Australia's Atherton Tablelands. *EARTH Magazine*, v. 57, no. 6, p. 52-59.
- Abbott, L. and T. Cook, 2006. Bigfoot arrives in Arizona, *Arizona Geology*, v. 36, p. 1-4.
- Abbott, L., 2005. Using travertine deposits to determine the age of Grand Canyon, *Nature Notes*, Grand Canyon Assoc., v. 21, p. 6,8.
- Abbott, L., 1999. Don't Take It For Granite: The Geology of Climbing Holds. *In*: Sherman, D. (Ed.), *Annual Editions Geology*, Dushkin/McGraw-Hill, Guilford, CT, p. 129-133.
- Abbott, L., 1997. Don't Take it for Granite. *Rock and Ice*, v. 81. Sept.-Oct., 1997, p. 34-43.



- Cook, T. and L. Abbott, 2018. Roof of the Rockies: Trail Ridge Road. EARTH Magazine, v. 63, no. 9/10, p. 80-89.
- Cook, T. and L. Abbott, 2018. The Pyramids of Giza: Wonders of an Ancient World. EARTH Magazine, v. 63, no. 9/10, p. 60-66.
- Cook, T. and L. Abbott, 2018. Las Vegas: The Scenery Beyond the Slots. EARTH Magazine, v. 63, no. 1/2, p. 80-86.
- Cook, T. and L. Abbott, 2017. Cones and Craters in Flagstaff, Arizona. EARTH Magazine, v. 62, no. 10, p. 38-44.
- Cook, T. and L. Abbott, 2017. Sky-High Adventure on Bolivia's Altiplano. EARTH Magazine, v. 62, no. 9, p. 40-46.
- Cook, T. and L. Abbott, 2017. A Tale of Two Rivers: Grand Junction, Colorado. EARTH Magazine, v. 62, no. 7, p. 42-48.
- Cook, T. and L. Abbott, 2017. Easter Island's Enduring Enigmas. EARTH Magazine, v. 62, no. 3/4, p. 88-94.
- Cook, T. and L. Abbott, 2017. Barbados Beckons. GEOExPro Magazine, v. 14, no. 1, p.48-51
- Cook, T. and L. Abbott, 2016. Limestone and Legends in Northern Vietnam. EARTH Magazine, v. 61, no. 9/10, p. 58-64.
- Cook, T. and L. Abbott, 2016. Zermatt: Europe Meets Africa in Switzerland's Iconic Alps. EARTH Magazine, v. 61, no. 7/8, p. 84-90.
- Cook, T. and L. Abbott, 2016. Turkey's Storied Turquoise Coast. EARTH Magazine, v. 61, no. 5/6, p. 82-88.
- Cook, T. and L. Abbott, 2016. The King's Highway: The Crossroads of Ancient Jordan. EARTH Magazine, v. 61, no. 3/4, p. 42-50.
- Cook, T. and L. Abbott, 2016. Peninsular Greece: A Gorgeous State of Collapse. EARTH Magazine, v. 61, no. 1/2, p. 60-66.
- Cook, T. and L. Abbott, 2015. Cyprus: Island of Oceanic Crust. EARTH Magazine, v. 60, no. 11/12, p. 58-65.
- Cook, T. and L. Abbott, 2015. Australia's Whitsunday Islands: Sun, Sand, and Silicic Volcanism. EARTH Magazine, v. 60, no. 9/10, p. 50-61.
- Cook, T. and L. Abbott, 2015. Geoheritage: Preserving Earth's Legacy. EARTH Magazine, v. 60, no. 7/8, p. 50-57.

- Cook, T. and L. Abbott, 2015. Glaciers and Grapes in South Australia. EARTH Magazine, v. 60, no. 5/6, p. 88-96.
- Cook, T. and L. Abbott, 2014. Winter Sun and Tectonic Tales in Tucson. EARTH Magazine, v. 59, no. 10, p. 54-60.
- Cook, T. and L. Abbott, 2014. Aussie Outback Adventure. EARTH Magazine, v. 59, no. 9, p. 48-55.
- Cook, T. and L. Abbott, 2013. Nebraska's Geoheritage Gems. EARTH Magazine, v. 58, no. 10, p. 42-47.
- Cook, T. and L. Abbott, 2012. Santorini: Dangerous Volcano, Postcard-Perfect Jewel of the Aegean. EARTH Magazine, vol. 57, no. 5, p. 42-49.
- Cook, T. and L. Abbott, 2012. Benchmarks: The New Madrid Earthquakes Strike the Heartland. EARTH Magazine, vol. 56, no. 12, p. 68-73.
- Cook, T. and L. Abbott, 2012. Barbados: Ascending the Sea-Level Staircase. EARTH Magazine, vol. 56, no. 12, p. 54-59.
- Cook, T. and L. Abbott, 2011. Twin Coral Reefs Separated in Time in Western Australia. EARTH Magazine, vol. 56, no. 8, p. 50-54.
- Cook, T. and L. Abbott, 2011. Florissant Fossil Beds: An Eocene Time Capsule. EARTH Magazine, vol. 56, no. 7, p. 48-51.

### **Blogs for a Popular Audience**

- Abbott, L., and Cook, T., Colorado By Nature: Skiing the Colorado Mineral Belt. 5280 Magazine, posted February 10, 2017. <http://www.5280.com/2017/02/colorado-by-nature-skiing-the-colorado-mineral-belt/>
- Abbott, L., and Cook, T., Colorado By Nature: Paint Mines Interpretive Park. 5280 Magazine, posted January 3, 2017. <http://www.5280.com/digital/2017/01/colorado-nature-paint-mines-interpretive-park>
- Abbott, L., and Cook, T., Colorado By Nature: West Bijou Site. 5280 Magazine, posted November 28, 2016. <http://www.5280.com/digital/2016/11/colorado-nature-west-bijou-site>
- Abbott, L., and Cook, T., Colorado By Nature: North and South Table Mountains. 5280 Magazine, posted October 31, 2016. <http://www.5280.com/digital/2016/10/colorado-nature-north-and-south-table-mountains>
- Abbott, L., and Cook, T., Colorado By Nature: How the Royal Gorge was Formed. 5280 Magazine, posted September 26, 2016. <http://www.5280.com/digital/2016/09/colorado-nature-how-royal-gorge-was-formed>

Abbott, L., and Cook, T., Colorado By Nature: The Longs Peak Diamond. 5280 Magazine, July 25, 2016. <http://www.5280.com/digital/2016/07/colorado-nature-longs-peak-diamond>

Abbott, L., and Cook, T., Colorado By Nature: The Story of Mesa Verde. 5280 Magazine, June 24, 2016. <http://www.5280.com/digital/2016/06/colorado-nature-story-mesa-verde>

### **Selected Presentations, Abstracts, and Interviews**

Abbott, L.D. and Cook, T.L., Inviting the public to the party: Celebrating and promoting geoheritage. Invited presentation at Geological Society America annual meeting, Phoenix, AZ, September, 2019.

Abbott, L.D., Flowers, R.M., Falkowski, S., Metcalf, J.R., and Niazy, F., Low-temperature thermochronometric results from Colorado's South Park and Arkansas Hills areas: Constrains on Laramide pluton emplacement depth, thickness of the Western Interior Seaway sedimentary section, and the timing of a post-Laramide unroofing event. Geological Society America annual meeting, Phoenix, AZ, September, 2019.

Abbott, L.D., Flowers, R.M., Metcalf, J.R., Hiatt, C., McCorkel, N., Scchanock, E., and Gonzalez, N., Investigating a bull's-eye of Late Miocene exhumation in Colorado's Elk and West Elk mountains using (U-Th)/He thermochronology, Indianapolis, IN, Nov., 2018.

Abbott, L.D., Thoughts on UNESCO World Heritage designation for the Guanling Biota. Invited keynote address at the International Symposium on Guanling Biota Protection and Featured Regional Touristic Development in Guanling, Guizhou Province, China. Guanling, China, June, 2017.

Abbott, L.D., Flowers, R.M., Metcalf, J.R. and Falkowski, S., The pre-rift exhumation history along the Arkansas River segment of Colorado's Rio Grande Rift. Geological Society America annual meeting, Seattle, WA, October, 2017.

Abbott, L.D., Glass, J., Flowers, R.M., and Metcalf, J.R., Exhumation history of the North Queensland segment of Australia's elevated passive margin escarpment as revealed by (U-Th)/He analysis of apatite and zircon. American Geophysical Union annual meeting, San Francisco, CA, December, 2016.

Abbott, L., and Cook, T., Common ground: How geoscientists can help increase awareness of geoheritage. Geol. Soc. Am. annual meeting, Baltimore, MD, September, 2015.

Abbott, L.D. A thumbnail sketch of eastern Australia's tectonic and geomorphic history: What is known and what still is a puzzle. Univ. Colorado Dept. Geological Sciences Colloquium, September 10, 2014.

Abbott, L.D. The geology of Estes Park rock climbing, Estes Park (Colorado) Museum, October 9, 2014.

Abbott, L.D. Evidence for transient knickpoint propagation through Grand Canyon, Arizona at about 500 ka. Univ. Wollongong GeoQuest Seminar, April 4, 2014.

- Abbott, L.D., Lundstrom, C.C., and Traub, C., Rates of river incision and scarp retreat in eastern Grand Canyon's Hermit-Boucher area determined using U-series dating of travertine. Geol. Soc. Am. annual meeting, Denver, CO, October, 2013.
- Abbott, L.D. The story beneath your feet. Interview by Ryan Warner on *Colorado Matters*. Colorado Public Radio. December 7, 2012. Rebroadcast Jan. 14, 2013.
- Abbott, L.D. Rates of Quaternary landscape change in the eastern Grand Canyon. Colorado Scientific Society, January 19, 2012.
- Abbott, L.D. Rates of Quaternary landscape change in the eastern Grand Canyon. University of Colorado Dept. of Geological Sciences Colloquium, Nov. 16, 2011.
- Abbott, L.D. and M.J. Fouch, A preliminary seismic receiver function study of crustal composition and thickness across the Basin and Range-Colorado Plateau transition zone in Arizona, GSA National Mtg, Denver, CO, October 28-31, 2007.
- Abbott, L.D. and C. Lundstrom, The use of travertine to measure rates of river incision and scarp retreat in eastern Grand Canyon, Arizona, GSA Mtg., Denver, CO, Oct. 28-31, 2007.
- Abbott, L.D. and M.J. Fouch, Preliminary constraints on variations in crustal composition and thickness across the Basin and Range-Colorado Plateau transition zone in west-central Arizona using receiver function analysis of USArray data, Earthscope National Meeting, Monterey, CA, March 27-30, 2007.
- Abbott, L.D., The Grand Canyon backcountry: An invaluable classroom for earth science-based environmental education, Grand Canyon Backcountry Conference, Grand Canyon, AZ, February, 2006.
- Abbott, L.D., et al., Measurement of surface uplift rate during collision-induced basin inversion in northern Papua New Guinea, AAPG-SEPM Pacific Sect. Mtg., San Francisco, CA, May, 1995.
- Abbott, L.D., et al., Measurement of a surface uplift rate in the Finisterre Mountains, Papua New Guinea. American Geophysical Union meeting, San Francisco, CA, December, 1994.
- Duggan-Haas, D., Kissel, R.A., Abbott, L.D., et al., The potential to develop and share deep understanding of place through virtual fieldwork and broadcasting from the field. Geol. Soc. Am. annual meeting, Denver, CO, Oct. 2013.
- Glass, J.A., Abbott, L.D., Flowers, R.M., and Metcalf, J.R., Latest Jurassic to Early Cretaceous cooling of the Bartle Frere pluton, North Queensland, Australia revealed by (U-Th)/He analysis of apatite and zircon. Geological Society of America annual meeting, Denver, CO, Sept. 2016.

Prothro, L.O., Ellwood, B.B., Meyer, H., Ratcliffe, K.T., Tomkin, J.H., and Abbott, L.D., Reinterpreting the stratigraphy of the Florissant Fossil Beds National Monument through correlation by magnetic susceptibility and geochemical comparisons. Geological Society of America annual meeting, Denver, CO, Oct. 2013.

Stempien, J. and Abbott, L.D., Combining best practices of individual and course-based research experiences to create a collaborative undergraduate geoscience research community, Indianapolis, IN, November, 2018.

Stempien, J. and Abbott, L.D., Creating a collaborative undergraduate geoscience research community using a hybrid research experience approach, Seattle, WA, October, 2017.

Weiler, P.D., L.D. Abbott, and R.S. Coe, Paleomagnetic constraints on fault kinematics in an active arc-continent collision in northern Papua New Guinea. American Geophysical Union annual meeting, San Francisco, CA, Dec. 1994.