

# Curriculum Vitae, Peter Zeitler

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## Degrees

- 1983-1987 Postdoctoral training, Isotope Geochemistry Group, Research School of Earth Sciences, Australian National University, Canberra (advisor: Ian McDougall)
- 1983 Ph.D., Dartmouth College, Hanover, New Hampshire, U.S.A. Thesis: "Uplift and Cooling History of the NW Himalaya, Northern Pakistan—Evidence from Fission-Track and  $^{40}\text{Ar}/^{39}\text{Ar}$  Cooling Ages"
- 1980 M.A., Dartmouth College. Thesis: "Tectonic Interpretation of Fission-Track Ages from the Himalayan Ranges of Pakistan"
- 1978 B.A. Cum Laude, Dartmouth College. Thesis: "Tectonic Control and Style of Late-Pliocene Molasse Sedimentation in the Jhelum Area, Pakistan"

## Employment History

- 2007-now Lehigh University, Bethlehem, Pennsylvania.  
Professor, Department of Earth & Environmental Sciences
- 2007-2009 Lehigh University, Bethlehem, Pennsylvania.  
Director, South Mountain College program
- 2004-2007 Lehigh University, Bethlehem, Pennsylvania.  
Professor and Chair, Department of Earth & Environmental Sciences
- 2002-2003 Lehigh University, Bethlehem, Pennsylvania  
Professor, Department of Earth & Environmental Sciences
- 1997-2002 Lehigh University, Bethlehem, Pennsylvania.  
Professor and Chair, Department of Earth & Environmental Sciences
- 1996-1997 Lehigh University, Bethlehem, Pennsylvania.  
Professor, Department of Earth & Environmental Sciences
- 1988-1991 Lehigh University, Bethlehem, Pennsylvania  
Associate Professor, Department of Earth & Environmental Sciences
- 1988-1991 Lehigh University, Bethlehem, Pennsylvania  
Assistant Professor, Department of Geological Sciences
- 1984-1987 Research School of Earth Sciences, Australian National University, Canberra, ACT 020, Australia  
Research Fellow in Isotope Geochemistry Group. Research involved  $^{40}\text{Ar}/^{39}\text{Ar}$  and K/Ar dating, and U/Pb dating by ion microprobe

- 1983-1984 Research School of Earth Sciences, Australian National University. Postdoctoral Fellow in Isotope Geochemistry Group. Research involved  $^{40}\text{Ar}/^{39}\text{Ar}$  dating.
- 1980-1982 Dartmouth College, Hanover, New Hampshire, USA. Co-instructor of undergraduate field mapping course.
- 1978-1981 Dartmouth College. Various teaching and research assistantships.
- 1979-1981 United States Geological Survey, Denver, Colorado. Assistant in fission-track laboratory. Duties involved all aspects of fission-track dating. Duration of employment totaled one year.
- 1977 Houston Oil and Minerals Corporation, Denver, Colorado. Summer field assistant, precious metal exploration, Nevada.

### Honors and Awards

- 2006-2015 Iacocca Professorship
- 2013- Fellow, American Geophysical Union
- 2013 Elsevier "Editorial Excellence Recognition Award" for service to the journal Earth and Planetary Science Letters

### Publications

(*Google Scholar: 5356 citations (344 in 2014); h-index 42; i10-index 75*)

- Idleman, B.D. and Zeitler, P.K., in prep. Rapid characterization of noble-gas kinetics using continuous heating and gas accumulation.
- Zeitler, P.K., Enkelmann, E., Thomas, J., Watson, B., and Ancuta, L.D., in prep. Solubility and trapping of helium in apatite.
- Zeitler, P.K., Ketcham, R., Reiners, P.W., Schmidt, J.L., and Shuster, D.L., in prep. Thermochronometer response in a contact aureole; Little Devil's Postpile revisited.
- Sahagian, D., Proussevitch, A., Ancuta, L.D., Idleman, B.D., and Zeitler, P.K., in review. Uplift of central Mongolia recorded in vesicular basalts. *Journal of Geology*.
- Tremblay, M.M., Fox, M., Schmidt, J.L., Tripathy-Lang, A., Wielicki, W.M., Harrison, T.M., Zeitler, P.K., and Shuster, D.L., in review. Growth of high Himalaya shuts down erosional exhumation in eastern Tibet since ~10 Ma. *PNAS*.
- Schmidt, J.L., Tremblay, M.M., Zeitler, P.K., Pazzaglia, F.J., Shuster, D.L., and Fox, M., in revision. Knickpoint evolution on the Yarlung river: evidence for Late Cenozoic uplift of the southeastern Tibetan plateau margin. *Earth and Planetary Science Letters*.
- Zeitler, P.K., Koons, P.O., Hallet, B., and Meltzer, A.S., in press. Comment on "Tectonic control of Yarlung Tsangpo gorge revealed by a buried canyon in southern Tibet". *Science*.
- Zeitler, P.K., 2014. U-Th:He Dating. In Rink, W.J. and Thompson, J. eds., *Encyclopedia of Dating Methods*, Springer, 1-14. doi: 10.1007/978-94-007-6326-5\_131-1.
- Zeitler, P.K., Meltzer, A.S., Brown, L., Kidd, W.S.F., Lim, C., and Enkelmann, E., 2014. Tectonics and topographic evolution of Namche Barwa and the easternmost Lhasa

- Block, in Nie, J., Hoke, G.D., and Horton, B., eds., Towards an improved understanding of uplift mechanisms and the elevation history of the Tibetan Plateau. Geological Society of America Special Paper, v. 507, doi: 10.1130/2014.2507(02).
- McKeon, R.E., Zeitler, P.K., Pazzaglia, F.J., Idleman, B.D., Enkelmann, E., 2014. Decay of an old orogen: Inferences about Appalachian landscape evolution from low-temperature thermochronology. Geological Society of America Bulletin, 126, 31-46, first published on November 6, 2013, doi:10.1130/B30808.1.
- Koons, P.O., Zeitler, P.K., Hallet, B., 2013. 5.14 Tectonic aneurysms and mountain building. In: Shroder, J. (Editor in Chief), Treatise on Geomorphology. Academic Press, San Diego, CA, vol. 5, pp. 318-349, doi: 10.1016/B978-0-12-374739-6.00094-4.
- MacFadden, B.J., Zeitler, P.K., Anaya, F., and Cottle, J.M., 2013. Middle Pleistocene age of the fossiliferous sedimentary sequence from Tarija, Bolivia. Quaternary Research, 79, 268-273, doi: 10.1016/j.yqres.2012.12.009.
- Enkelmann, E., Ehlers, T.A., Zeitler, P.K., Hallet, B., 2011. Denudation of the Namche Barwa Antiform, eastern Himalaya. Earth and Planetary Science Letters, 307, 323-333, doi:10.1016/j.epsl.2011.05.004.
- Enkelmann, E., Zeitler, P.K., Garver, J.I., Pavlis, T.L., and Hooks, B.P., 2010. The thermochronological record of tectonic and surface process interaction at the Yakutat–North American collision zone in southeast Alaska. American Journal of Science, 310, 231-260, doi: 10.2475/04.2010.01.
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- Enkelmann, E., Zeitler, P.K., Pavlis, T.L., Garver, J.I., and Ridgway, K.D., 2009. Intense localized rock uplift and erosion in the St. Elias orogen of Alaska. Nature Geoscience, 2, 360-363, doi: 10.1038/NGEO502.
- Finnegan, N.J., Hallet, B., Montgomery, D.R., Zeitler, P.K., Stone, J.O., Anders, A.M., and Liu, Y., 2008. Coupling of rock uplift and river incision in the Namche Barwa–Gyala Peri massif, Tibet. Geological Society of America Bulletin. 120, 142-155, doi: 10.1130/B26224.1.
- Stewart, R.J., Hallet, B., Zeitler, P.K., Malloy, M.A., Allen, C.M., and Trippett, D., 2008. Brahmaputra sediment flux dominated by highly localized rapid erosion from the easternmost Himalaya. Geology, 36(9), 711-714, doi: 10.1130/G24890A.1.
- Sol, S., Meltzer, A.S., Bürgmann, R., Van der Hilst, R.D., King, R., Chen, Z., Koons, P., Lev, E., Liu, Y.P., Zeitler, P.K., Zhang, X., Zhang, J., and Zurek, B., 2007. Geodynamics of the southeastern Tibetan plateau from seismic anisotropy and geodesy. Geology, 35, 563-566, doi: 10.1130/G23408A.1.
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- Reiners, P.W., Ehlers, T.A. and Zeitler, P.K., 2005. Past, present, and future of thermochronology, in *Low-Temperature Thermochronology: Techniques, Interpretations, and Applications*, *Reviews in Mineralogy & Geochemistry*, v. 58, edited by P.W. Reiners and T.A. Ehlers. pp. 1-18, Mineralogical Society of America, Chantilly, VA.
- Blisniuk, P.M., Stern, L.A., Chamberlain, C.P., Idleman, B., and Zeitler, P.K., 2005. Climatic and ecologic changes during Miocene surface uplift in the southern Patagonian Andes. *Earth Planetary Science Letters*, 230, 125-142.
- Booth, A.L., Zeitler, P.K., Kidd, W.S.F., Wooden, J., Yuping, L., Idleman, B., Hren, M., and Chamberlain, C.P., 2004. U-Pb zircon constraints on the tectonic evolution of southeastern Tibet, Namche Barwa area. *American Journal of Science*, 204, 889-929.
- Chamberlain, C.P., Koons, P.O., Meltzer, A.S., Park, S.K., Craw, D., Zeitler, P.K., Poage, M. A., 2002. Overview of hydrothermal activity associated with active orogenesis and metamorphism; Nanga Parbat, Pakistan Himalaya. *American Journal of Science*, 302, 726-748.
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- Schneider, D.A., Zeitler, P.K., Kidd, W.S.F., Edwards, M.A., 2001. Geochronologic constraints on the tectonic evolution and exhumation of Nanga Parbat, western Himalaya syntaxis, revisited. *The Journal of Geology*, 109, 563-583.
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- Schneider, D.A., Edwards, M.A., Kidd, W.S.F., Zeitler, P.K., and Coath, C., 1999. Early Miocene anatexis identified in the western syntaxis, Pakistan Himalaya. *Earth & Planetary Science Letters*, 167, 121-129.
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- Craw, D., Chamberlain, C.P., and Zeitler, P.K., 1997. Geochemistry of a dry steam geothermal zone formed during rapid uplift of Nanga Parbat, northern Pakistan. *Chemical Geology*, 142, 11-22.
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- Gray, M.B. and Zeitler, P.K., 1997. Comparison of clastic wedge provenance in the Appalachian foreland using U/Pb ages of detrital zircons. *Tectonics*, 16, 151-160.
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- Winslow, D.M., Chamberlain, C.P., Zeitler, P.K., 1995. Metamorphism and melting of the lithosphere due to rapid denudation, Nanga Parbat massif Himalaya. *Journal of geology*, 103, 395-409.
- Craw, D., Koons, P.O., Winslow, D.M., Chamberlain, C.P., and Zeitler, P.K., 1994. Boiling fluids in a region of rapid uplift, Nanga Parbat Massif, Pakistan, *Earth and Planetary Science Letters*, 128, 169-182.
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- Zeitler, P.K., Chamberlain, C.P., and Smith, H.A., 1993. Synchronous anatexis, metamorphism, and rapid denudation at Nanga Parbat (Pakistan Himalaya), *Geology*, 21, 347-350.
- Shaw, R.D., Zeitler, P.K., McDougall, I., and Tingate, P. R., 1992. The Paleozoic history of an unusual intracratonic thrust belt in central Australia based on  $^{40}\text{Ar}$ - $^{39}\text{Ar}$ , K-Ar and fission track dating, *Geological Society of London Journal*, 149, 937-954.
- Maboko, M.A.H., McDougall, I., Zeitler, P.K., and Williams, I.S., 1992. Geochronological evidence for ~530-550 Ma juxtaposition of two Proterozoic metamorphic terranes in the Musgrave Ranges, central Australia. *Australian Journal of Earth Sciences*, 39, 457-471.
- Smith, H.A., Chamberlain, C.P., and Zeitler, P.K., 1992. Documentation of Neogene regional metamorphism in the Himalayas of Pakistan using U-Pb in monazite. *Earth and Planetary Science Letters*, 113, 93-105.
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- Maboko, M.A.H., McDougall, I., Zeitler, P.K., and Fitz Gerald, J.D., 1991. Discordant  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  ages from the Musgrave Ranges, central Australia: implications for the significance of hornblende  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  spectra. *Chemical Geology (Isotope Geoscience Section)*. 86, 139-160.
- Zeitler, P.K. and Chamberlain, C.P., 1991. Petrogenetic and tectonic significance of young leucogranites from the northwestern Himalaya, Pakistan. *Tectonics*, 10, 729-741.

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- Zeitler, P.K., Sutter, J.F., Williams, I., Zartman, R.E., and Tahirkheli, R.A.K., 1989. Geochronology and temperature history of the Nanga Parbat-Haramosh Massif, Pakistan, in Malinconico, L.L. and Lillie, eds., *Tectonics of the Western Himalayas*, Geological Society of America Special Paper 232, p. 1-22.
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- Cerveny, P.F., Naeser, N.D., Zeitler, P.K., Naeser, C.W. and Johnson, N.M., 1988. History of uplift and relief of the Himalaya over the past 18 Ma—Evidence from fission-track ages of detrital zircons from sandstones of the Siwalik Group, in K. Kleinspehn and C. Paola, eds., *New Perspectives in Basin Analysis*, University Minnesota Press, p. 43-61.
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### **Other Publications**

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## Abstracts

*150 abstracts presented, national and international meetings. In 2012 - 2014:*

- Ancuta, L.D., Carlson, R.W., Ionov, D., and Zeitler, P.K., 2014. Geochemistry and geochronology of the lower crust beneath central Mongolia. Abstract T21A-4557 presented at 2014 Fall Meeting, American Geophysical Union, San Francisco, Calif., 15-19 December.
- Idleman, B.D and Zeitler, P.K., 2014. Rapid characterization of noble-gas kinetics using continuous heating and gas accumulation. Abstract presented at the 14<sup>th</sup> International Conference on Thermochronology, Chamonix-Mont Blanc, France, 8-14 September.
- McDannell, K., Zeitler, P.K., Idleman, B.D., Schneider, D.A., and Flowers, R., 2014. Deep-time thermochronology: K-feldspar  $^{40}\text{Ar}/^{39}\text{Ar}$  assessment of post-orogenic cooling within the North American craton – When did the Shield become a shield? Abstract presented at the 14<sup>th</sup> International Conference on Thermochronology, Chamonix-Mont Blanc, France, 8-14 September.
- McDannell, K., Zeitler, P.K., Ancuta, L.D., Idleman, B.D., Boulton, S., and Wegmann, K., 2014. The Hangay dome, central Mongolia: A relict Mesozoic landscape. Abstract T21A-4559 presented at 2014 Fall Meeting, American Geophysical Union, San Francisco, Calif., 15-19 December.
- Sahagian, D., Proussevitch, A., Ancuta, L.D., Idleman, B.D., and Zeitler, P.K., 2014. Mongolian Hangay uplift recorded in vesicular basalts. Abstract T21A-4558

- presented at 2014 Fall Meeting, American Geophysical Union, San Francisco, Calif., 15-19 December.
- Schmidt, J., Zeitler, P.K., Ketcham, R.A., Reiners, P.W., Dhuster, D.L., and Karlstrom, L., 2014. Little Devil's Postpile revisited: Behavior of multiple thermochronometers in a contact aureole. Abstract presented at the 14<sup>th</sup> International Conference on Thermochronology, Chamonix-Mont Blanc, France, 8-14 September.
- Schmidt, J., Zeitler, P.K., Tremblay, M., and Shuster, D., 2014. Differential unroofing across southeastern Tibet: Geodynamic links between plateau-scale tectonics and landscape evolution. Abstract EP24B-01 presented at 2014 Fall Meeting, American Geophysical Union, San Francisco, Calif., 15-19 December.
- Wong, M., Roesler, D., Gans, P., Zeitler, P.K., and Idleman, B.D., 2014. Field calibration studies of continuous thermal histories derived from multiple diffusion domain (MDD) modeling of <sup>40</sup>Ar/<sup>39</sup>Ar K-feldspar analyses at the Grayback and Gold Butte normal fault blocks, U.S. Basin and Range. Abstract EP21A-3521 presented at 2014 Fall Meeting, American Geophysical Union, San Francisco, Calif., 15-19 December.
- Zeitler, P.K., 2014. The fate of orogens: how do exhumation processes scale across time? Geological Society of America Abstracts with Programs. Vol. 46, No. 2, p. 94.
- Zeitler, P.K., 2014. Significance of micropores and low noble-gas solubilities for thermochronology. Abstract presented at the 14<sup>th</sup> International Conference on Thermochronology, Chamonix-Mont Blanc, France, 8-14 September.
- Ancuta, L.D., Carlson, R.W., Idleman, B.D., and Zeitler, P.K., 2013. Geochemistry and geochronology of Hangay Dome volcanic rocks: exploring the source of high topography and volcanism in an intracontinental setting. Abstract T42B-08 presented at 2013 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- McDannell, K.T., Ancuta, L.D., Smith, S.G., Idleman, B.D., Wegmann, K.W., and Zeitler, P.K., 2013. Long-term landscape evolution in the Hangay Dome, Mongolia. Abstract T43B-2658 presented at 2013 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Schmidt, J.L., Zeitler, P.K., Shuster, D.L., Tremblay, M.M., and Harrison, T.M., 2013. Quantifying tectonic controls on regional Cenozoic surface evolution in the eastern Lhasa Block. Abstract T43H-05 presented at 2013 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Tremblay, M.M., Shuster, D.L., Schmidt, J.L., Zeitler, P.K., and Harrison, T.M., 2013. Low temperature thermochronometric constraints on exhumation and landscape evolution of the eastern Lhasa block, southern Tibet. Abstract EP43E-07 presented at 2013 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Wong, M.S., Roesler, D., Gans, P.B., Idleman, B., and Zeitler, P., 2013. Field calibration studies of continuous thermal histories derived from multiple diffusion domain (MDD) modeling of <sup>40</sup>Ar/<sup>39</sup>Ar K-feldspar analyses at the Grayback (AZ) and Gold Butte (NV) normal fault blocks. Geological Society of America Abstracts with Programs, Vol. 45, No. 7, p. 596.

- Zeitler, P.K., Ketcham, R.A., Reiners, P.W., Schmidt, J.L., and Shuster, D., 2013. Thermal histories from thermochronology: where do we stand? (Invited). Geological Society of America Abstracts with Programs, Vol. 45, No. 7, p. 223.
- Zeitler, P.K., 2012. Thermochronology of orogenic belts (Invited). Thermo2012: 13<sup>th</sup> International Conference on Thermochronology, Guilin, China (24-28 August, 2012).
- Zeitler, P.K. and Meltzer, A.S., 2012. Signal and noise in the evolution of the continental lithosphere: lessons from the Himalayan syntaxes. Abstract T131I-06 presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Ancuta, L.D., Carlson, R.W., Idleman, B.D., and Peter K. Zeitler, 2012. Volcanic stratigraphy, <sup>40</sup>Ar/<sup>39</sup>Ar geochronology and geochemistry of Hangay Dome volcanic rocks, central Mongolia. Abstract T31B-2586 presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Richard W. Carlson; Leonard D. Ancuta; Matthew J. Fouch; Bruce D. Idleman; Dmitri A. Ionov; David E. James; Anne Meltzer; Graham Pearson; Steven B. Shirey; Peter K. Zeitler (Invited), 2012. The role of the mantle lithosphere in continent stability. Abstract T11D-02 presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Meltzer, A., Ancuta, L.D., Carlson, R.W., Caves J.K., Chamberlain, C.P., Gosse, J.C., Idleman, B.D., Ionov, D.A., Mcdannell, K.T., Mendelson, T., Mix, H.T., Ulziibat Munkhuu, Proussevitch, A.A., Russo, R.M., Sabaj-Perez, M., Sahagian, D.L., Sjostrom, D.J., Stachnik, J.C., Baasanbat Tsagaan, Wegmann, K.W., Winnick, M.J., and Zeitler, P.K., 2012. Intracontinental deformation and surface uplift - geodynamic evolution of the Hangay Dome, Mongolia central Asia. Abstract T12A-05 presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Shuster, D.L., Reiners, P.W., Schmidt, J.L., Zeitler, P.K., Ketcham, R.A., and Karlstrom, L., 2012. Intercalibration of multiple thermochronometric systems at the Little Devil's Postpile contact aureole. Abstract V23D-2867 presented at 2012 Fall Meeting, American Geophysical Union, San Francisco, Calif., 3-7 December.
- Zeitler, P.K., 2011. The thermochronologist's progress (Invited), Abstract V31G-03 presented at 2011 Fall Meeting, American Geophysical Union, San Francisco, Calif., 5-9 December.
- Ancuta, L.D., Zeitler, P.K., and Idleman, B.D. 2011. Volcanic stratigraphy and <sup>40</sup>Ar/<sup>39</sup>Ar geochronology of Hangay Dome Basalts, Central Mongolia. Abstract T51H-2457 presented at 2011 Fall Meeting, American Geophysical Union, San Francisco, Calif., 5-9 December.
- McKeon, R.E., Zeitler, P.K., and Pazzaglia, F.J. 2011. Teasing out an unsteady past in the southern Appalachians using apatite U-Th/He thermochronology. Abstract EP41D-0635 presented at 2011 Fall Meeting, American Geophysical Union, San Francisco, Calif., 5-9 December.
- McKeon, Ryan E., Zeitler, Peter K., Pazzaglia, Frank J., Long-Term landscape evolution from apatite U-Th/He thermochronology in slowly eroding landscapes: Problems

and potential from the southern Appalachians, U.S.A. European Geosciences Union General Assembly 2011, Vienna, Austria - April 2011. (poster)

### **Grants and Contracts** (*active grants in italics*)

- National Science Foundation (w/ Ph.D. candidate L. Ancuta, Lehigh). "Thermochronology and geochemistry of lower crustal xenoliths, central Mongolia: Formation and evolution of the deep crust in an intracontinental setting". \$81,532, 12 months, 2014-2015.*
- Lehigh University Faculty Innovation Grant. "Plenty of nothing: Quantifying the decay of orogens and the birth of stable cratons." \$24,777, 12 months, 2013-2014.*
- National Science Foundation (w/ A. Meltzer, Lehigh University, and other PIs at several institutions). "Collaborative Research: Lhasa Block top to bottom—lithospheric evolution of Asia's leading edge." Lehigh budget \$1,114,554 (project budget: \$3.1 million). 2011-2016.*
- National Science Foundation (w/ P. Reiners, Arizona; R. Ketcham, Texas; D. Shuster, Berkeley Geochronology Center). "Collaborative Research. Little Devils Postpile revisited: Intercalibration of thermochronometer kinetics in a contact aureole." Lehigh budget \$193,209 (project budget: \$362,808). 2011-2015.*
- National Science Foundation (w/ A. Meltzer, B. Idleman, D. Sahagian, Lehigh University, and other PIs at several institutions). "Collaborative Research: Intracontinental deformation and surface uplift—Geodynamic evolution of the Hangay Dome, Mongolia, Central Asia." Lehigh budget \$1,533,072 (project budget: \$2.5 million). 2010-2015.*
- National Science Foundation (equipment proposal, w/ B. Idleman, Lehigh). "Upgrade of the noble-gas geochronology laboratory at Lehigh University". \$29,025. 2010-2011.
- Petroleum Research Fund ('AC' grant. w/ Eva Enkelmann, Lehigh University). "Impacts of fission-track damage on helium diffusion kinetics in apatite and zircon." \$89,995. 2007-2009.
- National Science Foundation (w/ T. Pavlis, University of New Orleans, and many other PIs at several institutions). "Collaborative research: St. Elias erosion/tectonics project (STEEP)." Lehigh budget \$89,504 (project budget: \$4.5 million). 2004-2009. \$138,000 supplement awarded in 2007.
- National Science Foundation (w/ A. Meltzer, Lehigh University, and many other PIs at several institutions; Zeitler is project coordinator). "Collaborative Research: Geodynamics of Indentor Corners." Lehigh budget \$1,295,281 (project budget: \$2.2 million). 2001-2006.
- National Science Foundation. "Incision history of the middle Indus River from (U-Th)/He dating of apatite." \$48,171. 2001-2004.
- W. M. Keck Foundation (co-PI with lead P.I., A. Meltzer, Lehigh University). "LEO, The Lehigh Earth Observatory." \$500,000.
- National Science Foundation (w/ D. Anastasio, A. Meltzer, Frank Pazzaglia, Lehigh University). "U.S.-Ecuador Planning Visit: Geodynamics, Active Tectonics, and Geological Hazards in the Northern Andes, Ecuador." \$7,000. 1/15/00 - 12/31/00.

National Science Foundation (w/ B. Idleman, Frank Pazzaglia, Lehigh University). "Exhumation and topographic evolution of the post-orogenic Appalachians determined by apatite U-Th/He dating." \$197,153. 2000-2004.

National Science Foundation (equipment proposal). "Facility Upgrade: Development of a facility for U-Th/He dating at Lehigh University." \$14,883. Funded without review as supplement to existing technician grant.

AT&T Foundation (Industrial Ecology Initiative) (w/ A. Meltzer, Lehigh University). "LEO, The Lehigh Earth Observatory: a proposal for curriculum development." \$25,000. 1997-1998.

National Science Foundation (w/ A. Meltzer, Lehigh University; Doug Prose, Earth Images Corporation). "Collaborative Research: Crustal reworking during orogeny: An active-system Himalayan perspective, Nanga Parbat - Newton's Apple television segment." \$49,657. 1998-2001.

National Science Foundation (w/ G. Bebout, Lehigh University; equipment proposal). "Technician support: Isotope Geochemistry at Lehigh University." \$100,000. 1998-2002.

National Science Foundation (w/ A. Meltzer, Lehigh University). "Supplement: Collaborative Research: Crustal reworking during orogeny: an active-system Himalayan perspective." \$128,068. 1999-2000.

National Science Foundation (w/ A. Meltzer, Lehigh University). "REU Support: 'Crustal reworking during orogeny: An active system Himalayan perspective.'" \$10,000. 1997.

National Science Foundation (w/ K. Kodama, Lehigh University). "Simplifying multicomponent magnetizations as an aid in spatially and temporally refining ancient polar wander." \$72,056. 1996-1998.

National Science Foundation (w/ A. Meltzer, Lehigh University, and many other PIs at several institutions; Zeitler was project leader). "Collaborative Research: Crustal reworking during orogeny: an active-system Himalayan perspective." Lehigh budget \$1,067,059 (project budget is approx. \$2.1 million). 1996-1998.

National Science Foundation (w/ G. Bebout, Lehigh University). "Facility upgrade: acquisition of a laser microprobe at Lehigh University." \$80,000. 1995-1998.

National Science Foundation (w/ G. Bebout, Lehigh University; equipment proposal). "Technician support: Isotope Geochemistry at Lehigh University." \$120,000. 1995-1998.

National Science Foundation (equipment proposal). "Facility upgrade: automation of  $^{40}\text{Ar}/^{39}\text{Ar}$  analyses at Lehigh University." \$15,000. 1995-1997.

National Science Foundation. "Supplement: Metamorphic evolution of the Nanga Parbat Massif: Metamorphism, fluid flow, and granite genesis." \$12,000. 1994.

National Science Foundation. " $^{40}\text{Ar}/^{39}\text{Ar}$  dating of feldspars from the KTB deep drill hole: insights into post-orogenic thermal relaxation and Ar diffusion systematics during closure." \$103,349. 1993-1996.

National Science Foundation (w/ M. Steckler, G. Karner, Lamont-Doherty Geophysical Observatory; G. Omaar, University of Pennsylvania). "Constraints on the thermal

evolution of the Newark Basin by means of fission-track and  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology using drill core data." \$26,404. 1992-1994.

National Science Foundation. "A refined age for the Manson Impact Structure by means of detailed  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology of shocked microclines." \$39,013. 1992-1993.

National Science Foundation (w/ C. P. Chamberlain, Dartmouth College). "Metamorphic evolution of the Nanga Parbat Massif: Metamorphism, fluid flow, and granite genesis." \$91,917. 1991-1993.

National Science Foundation (w/ P. Copeland, University of Houston). "Precise and detailed uplift history of an orogen: quantitative constraints from  $^{40}\text{Ar}/^{39}\text{Ar}$  and fission-track thermochronometry." \$63,067. 1990-1992.

National Science Foundation (w/ C. P. Chamberlain, Dartmouth College). "Lateral variations in the timing and nature of metamorphism associated with a major terrane boundary in the NW Himalaya." \$59,404. 1989-1991.

Petroleum Research Fund (type 'G' starter grant). "Calibration of isotope thermochronometers by means of detailed thermal modelling and geochronological study of a small contact aureole." \$18,000. 1988-1990.

National Science Foundation (equipment proposal). "Establishment of a facility for  $^{40}\text{Ar}/^{39}\text{Ar}$  and other noble-gas geochronology." \$70,000. 1988-1989.

### **Professional Affiliations**

- American Geophysical Union (elected Fellow in 2013)
- Geological Society of America

### **Professional Service** (*current in italics*)

- ~170 proposal reviews for National Science Foundation and other agencies
- ~140 reviews of journal articles
- *Chair, International Standing Committee on Thermochronology, 2014 – present (member since 2010)*
- *Editorial Advisory Board, Earth and Planetary Science Letters (2007 – present)*
- Special-Session Convener, 2014, American Geophysical Union, Annual Meeting "Earth System Dynamics of High Elevation Continental Interiors: From the Asthenosphere to the Biosphere." With K. Wegmann (NC State), J. Stachnik (Lehigh), Jeremy Caves (Stanford)
- Special-Session Convener, 2008, American Geophysical Union, Annual Meeting "The Co-evolution of River Systems and Orogens." With S. Cina (UCLA)
- National Science Foundation, Panel Member, Continental Dynamics Program (March, 2008)
- Scientific Steering Committee, FT2008 – 11<sup>th</sup> International Conference on Thermochronometry
- Special-Session Convener, 2006, American Geophysical Union, Annual Meeting "Geodynamics of Indentor Corners." With A.S. Meltzer
- National Science Foundation/IRIS. Member, steering committee for the USArray component of the Earthscope MRE initiative (3/99 - 2002)

- Special-Session Convener, 2000, American Geophysical Union, Annual Meeting “The Timescale and Rates of Geological Processes.” Special session honoring the career of Ian McDougall. With T.M.H. Harrison
- Special-Session Convener, 1999, American Geophysical Union, Annual Meeting “Applications and Methods of U-Th/He Dating: Taking Stock.” With K. Farley and P. Reiners
- Special-Session Convener, 1998, American Geophysical Union, Annual Meeting “Fire and Ice: The Geomorphology of Metamorphism.” With C.P. Chamberlain and B. Hallet
- National Science Foundation, Panel Member, Continental Dynamics Program (appointment 8/93 - 11/97, 2008)
- National Research Council, Panel Member, Geodynamics of Sedimentary Basins (appointment 6/95 - 8/96)
- Member, Editorial Board, *Geology* magazine, term 1990-1992
- Organizing Committee, AGU Chapman Conference on Fluids in the Crust (Snowbird, Utah, June, 1990)
- Symposium Convener, 7th International Conference on Geochronology, Cosmochronology, and Isotope Geochemistry (Canberra, Australia, Sept. 1990)

### **University, College, and Departmental Service Highlights** *(current in italics)*

- *EES Faculty Search Committee (2015 – now)*
- *EES Department Graduate Director (2013 – now)*
- *International Faculty Grant Committee (2011 – now)*
- *Established (and maintain) EES web pages, 1995-2003; 2005-present*
- South Mountain College Steering Committee (2009 – 2014)
- Co-organizer of 2013 Foster-Hewett Lectures
- Director, South Mountain College (2007 – 2009)
- EES Department Chair, 1997 to 2002; 2004-2007.
- Member, planning committee for new Environmental Initiative/Undergraduate-Science Building (2005-2007).
- Member, Dean’s working group on South Mountain College (2005-2007)
- College Policy Committee (2003)
- Member, Environmental Initiative Steering Committee, 2002-2007.
- Member, Environmental Task Force, 2001 to 2002.
- Co-organizer, Environmental Workshop, October, 2000.
- Graduate and Research Committee. 1996-1997.
- Tenure Committee, College of Arts and Sciences, 1992-1994 (chair in 1993)

### **Students and Postdocs**

***In progress:*** Lenny Ancuta (Ph.D.), Kalin McDannell (Ph.D.), Jennifer Schmidt (Ph.D.), Darwin Janes (M.S.), Janelle Thumma (M.S.)

**Completed:** Ryan McKeon (Ph.D. 2012), Shayna Boulton (undergrad research 2013), Matt Groff (undergrad research 2012), Eva Enkelmann (Postdoc, 2009), Michael Kutney (M.S. 2006), Jeremy Laucks (M.S. 2005), Molly Malloy (M.S. 2004), Tom Becker (M.S. 2001), David Schneider (Ph.D. 1999), Alicia Stanfill (B.S. 1997), Andrew Warnock (Ph.D. 1997), Michael Krol (Ph.D. 1996), David Winslow (Ph.D. 1995), Lori Warner (B.S., 1993), Elizabeth Erickson (M.S., 1990)

**Recent Courses Taught** (\*\*Indicates team-taught course)

**Fall, 2015**

EES 429 Principles and Applications of Geochronology

**Spring, 2015**

EES 100 Earth Systems Science

SMC 10/200 South Mountain College Seminar

**Fall, 2014**

EES 026 Energy: Origins, Impacts, and Options

EES 426 Tectonic Processes\*\*

**Spring, 2014**

EES 100 Earth Systems Science

EES 429 Principles and Applications of Geochronology

**Fall, 2013**

EES 004 Science of Environmental Issues\*\*

EES 026 Energy: Origins, Impacts, and Options

**Spring, 2013**

EES 100 Earth Systems Science

**Fall, 2012**

EES 004 Science of Environmental Issues\*\*

EES 026 Energy: Origins, Impacts, and Options

EES 426 Tectonic Processes\*\*

**Spring, 2012**

EES 380 Senior Seminar in Earth and Environmental Sciences

EES 429 Principles and Applications of Geochronology

**Fall 2011**

On leave

**Spring 2011**

On leave

**Fall, 2010**

EES 004 Science of Environmental Issues\*\*

EES 026 Energy: Origins, Impacts, and Options

EES 426 Tectonic Processes\*\*

**Spring, 2010**

SMC 200 South Mountain College Investigations\*\*

**Fall, 2009**

EES 004 Science of Environmental Issues\*\*

EES 026 Energy: Origins, Impacts, and Options

SMC 200 South Mountain College Investigations\*\*



