

CURRICULUM VITA

NAME: James P. McCalpin
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EDUCATION: Ph.D., Colorado School of Mines, Golden, CO - 1981 (Geology)
M.S., University of Colorado, Boulder, CO - 1975 (Geology)
B.A. (honors), University of Texas, Austin, TX - 1972 (Geology)

PROFESSIONAL EXPERIENCE

1999-present, Director, Crestone Science Center, Crestone, CO 81131
1991-present, President, GEO-HAZ Consulting, Inc., Crestone, CO 81131
1991-present, Research Associate Professor, Department of Geology, Utah State University, Logan, UT
1987-1991, Associate Professor, Department of Geology, Utah State University, Logan, UT
1982-1987 Assistant Professor, Department of Geology, Utah State University, Logan, UT
1982, County Geologist, Jefferson County Planning Department, Golden, CO
1977-78, Geologist, Branch of Western Environmental Geology, U.S. Geological Survey, Menlo Park, CA
1976-77, Geologic Field Assistant, Branch of Alaskan Geology, U.S. Geological Survey
1976, Research Assistant (Site Geologist), Dry Creek Archaeologic Site, Healy, AK

PROFESSIONAL SOCIETIES/ LICENSES

Association of Environmental & Engineering Geologists; International Quaternary Association (INQUA); Geological Society of America; Seismological Society of America; licensed professional geologist (Utah)

AWARDS

2014, Meritorius Service Award, Environmental & Engineering Geology Division, Geol. Soc. Amer.
2013, Richard Jahns Distinguished Lecturer (Engineering Geology Division, Geological Society of America and Association of Environmental & Engineering Geologists)
2000, E.B. Burwell Award (Engineering Geology Division, Geological Society of America), for outstanding publication in engineering geology ("Paleoseismology", Academic Press, 1996)
1999, Claire B. Holdredge Award (Association of Engineering Geologists) for book significant to Engineering Geology ("Paleoseismology", Academic Press, 1996).
1990, National Academy of Sciences exchange to USSR, trench active faults near Lake Baikal, Aug.10-Sept.10, 1991
1987-1988, Fulbright Fellowship to study active faults in New Zealand via trenching and

absolute dating.

PROFESSIONAL SERVICE

1999-2003, Vice Chair, INQUA Neotectonics Commission

2010-present, Chairman, E.B. Burwell Jr. Award Committee, Environmental & Engineering Geology Division, Geological Society of America

2017-present, Member, Academic and Applied Geoscience Relations (AAGR) Committee, Geological Society of America

TEACHING EXPERIENCE

2001-present, Director, Crestone Science Center and Utah State University, Crestone, CO

COURSES TAUGHT: Field Methods in Neotectonics and Paleoseismology

1995-1998, Adjunct Instructor, Mountain Research Station, University of Colorado, Boulder, CO

COURSES TAUGHT: Mountain Geomorphology (summer, 3 weeks)

1982-1991, Associate and Assistant Professor, Utah State University.

COURSES TAUGHT: Introductory Geology (Geol 101);Geologic Field Excursions (Geol350);

Groundwater Geology (Geol 548);Surficial Geology/Geomorphology (Geol 560); Photogeology (Geol 564);Environmental and Engineering Geology (Geol 630)

CONSULTING EXPERIENCE

Since 1990, Dr. McCalpin has worked full-time as a consultant in the fields of geologic hazard analysis and mitigation. He has performed or directed work in over 150 consulting projects, for clients representing US and foreign governments, for-profit and nonprofit companies, and individuals. Dr. McCalpin has provided technical and policy guidance to many agencies of the US Federal and State governments, including the Departments of the Interior, Justice, and Energy. He has also consulted for numerous foreign national geological surveys, academies of science, universities, and national-level regulatory agencies. A complete list of clients and projects is available upon request.

Dr. McCalpin's recent work has specialized in assessing seismic hazards for energy pipelines in North America. Since 2010 he has worked on the Alaska Pipeline Project (Transcanada); the Trans-Alaska Oil Pipeline (Alyeska); and the proposed Coastal Gas Link, Prince Rupert Gas Transmission, and Spectra pipelines in British Columbia (all Transcanada). For such remote and forested areas, finding active faults requires a high-technology approach using helicopters, on-board computers and GIS systems, real-time GPS positioning, and LiDAR imagery (see McCalpin and Carver, 2013).

CAREER INTERESTS

Continuing research in earthquake and landslide hazards, particularly utilizing trenching and thermoluminescence and radiocarbon dating; application of remote sensing, digital terrain mapping, and Geographic Information Systems (GIS) in engineering geology and hazards assessment; tectonic and fluvial geomorphology; Quaternary stratigraphy, soil stratigraphy; geologic data input to governmental policy planning; international exchanges and training with developing countries.

PUBLICATIONS

Dr. McCalpin has authored or co-authored more than 135 refereed papers in scientific journals and proceedings, authored 13 geologic maps, and wrote 130 consulting reports on geohazards for clients.

PUBLICATION LIST of JAMES P. McCALPIN (07-JAN-2019)

Books, Monographs, & Field Guides

31. McCalpin, J.P., in press 2018, SEISMOLOGY AND GEOLOGIC HAZARDS IN THE GREATER SAN LUIS VALLEY, in Beeton, J. (ed.), *The San Luis Valley: Geology, Ecology, and Human History*: University of Colorado Press.
30. McCalpin, J.P., 2018, Surface Rupture, in Bobrowsky, P. T. and Marker, B., (eds.), *Encyclopedia of Engineering Geology*; Springer Publishing.
29. McCalpin, J.P., 2017, Paleoseismology, in Jusseret, S. and Sinyubin, M. (eds.), *Minoan Earthquakes; Breaking the Myth through Interdisciplinarity: Studies in Archaeological Sciences*, v. 5, Leuven Press, Belgium, p. 55-80.
28. McCalpin, J.P. (ed.), 2016, *Proceedings of the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 13, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, DOI: 10.13140/RG.2.2.20866.89287.
27. McCalpin, J.P., Matthews, V.R., and Nelson, A.R., 2016, *Post-Meeting Field Trip Guide, after the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 12, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, DOI: 10.13140/RG.2.2.25480.62720.
26. McCalpin, J.P. and Nelson, A.R., 2016, *Student Training Course, during the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 11, Crestone Science Center, P.O. Box 837, Crestone, CO 81131 DOI: 10.13140/RG.2.2.13736.57608.
25. McCalpin, J.P., 2016, *Intra-Meeting Field Trip Guide, during the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 10, Crestone Science Center, P.O. Box 837, Crestone, CO 81131
24. McCalpin, J.P. and Matthews, V.R., 2016, *Pre-Meeting Field Trip Guide, prior to the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 9, Crestone Science Center, P.O. Box 837, Crestone, CO 81131
23. McCalpin, J.P., 2016, *The PATA Road Trip "FAULTS OF THE WILD WEST"; Guidebook to the PATA excursion prior to the 7th International Workshop on Paleoseismology, Active Tectonics, and Archaeoseismology (PATA Days)*, Crestone, CO: Guidebook No. 8, Crestone Science Center, P.O. Box 837, Crestone, CO 81131
22. McCalpin, J.P., 2011, *Crestone—Gateway to the Higher Realms: Field Guide No. 7*, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 256 p. (Amazon.com, Search Inside Book)
21. Audemard, F.A., Michetti, A.M. and **McCalpin, J.P.** (eds.), 2011, *Geological criteria for evaluating seismicity revisited; Forty years of paleoseismic investigations and the natural record of past earthquakes: Geological Society of America Special Paper 479*, 204 p.
20. McCalpin, J.P., Briner, J., Young, N., Leonard, E. and Ruleman, C. (eds.), 2010, *Quaternary Geology and Geochronology of the Uppermost Arkansas Valley—Glaciers, Ice Dams, Landslides, Floods; Guidebook to Field Trip 405*, Geological Society of America 2010 Annual Meeting, Denver, CO: Field Guide No. 6, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 35 p.
19. McCalpin, J.P. (ed.), 2009, *Paleoseismology, 2nd Edition: International Geophysics Series, No. 95*, Academic Press-Elsevier, 629 p., plus on-line materials at: <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123735768>
18. McCalpin, J.P. (ed.), 2008, *Quaternary Happenings in the Overthrust Belt, Western Wyoming; 2008 Friends of the Pleistocene Field Trip—Rocky Mountain Cell, 6-8 Sept. 2008: Field Guide No. 5*, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 92 p., DOI: 10.13140/RG.2.2.26004.91527.
17. McCalpin, J.P., 2008, *Central Rio Grande rift, Neotectonics and Volcanism-- Field Trip #2*, Seismological Society of America Annual Meeting, Albuquerque, NM, 19-April-2008: Field Guide No. 4, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 36 p DOI: 10.13140/RG.2.2.27682.63688, .
16. McCalpin, J.P., 2007, *Paleoseismology in seismic hazard assessment; Distinguishing active faults from neotectonic features that look like them (with a field trip to ridgetop spreading zones)*: University of California, Riverside, 59 p.

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15. McCalpin, J.P., 2007, Finding Fault in the San Luis Valley-- A Geology Field Trip Along the Sangre de Cristo Fault and Geothermal Sites: Field Guide No. 3, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 14-July-2007, 18 p., DOI: 10.13140/RG.2.2.31038.08003.,
 14. McCalpin, J.P., Olig, S.S., Harrison, J.B.J. and Berger, G.W., 2006, Quaternary faulting and soil formation on the County Dump fault, Albuquerque, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Circular 212, 36 p. (<http://www.geohaz.com\2006 CountyDump.pdf>)
 13. McCalpin, J.P., 2003, Neotectonics of Bear Lake Valley, Utah and Idaho, A preliminary assessment: Utah Geological Survey, Miscellaneous Publication 03-4, 43 p. (http://ugspub.nr.utah.gov/publications/misc_pubs/MP-03-4.pdf)
 12. McCalpin, J.P., 2002, Post-Provo paleoearthquake chronology of the Brigham City Segment, Wasatch fault zone, Utah: Utah Geological Survey, Miscellaneous Publication 02-9, 46 p. (http://ugspub.nr.utah.gov/publications/misc_pubs/MP-02-9WFZ-BrigCity.pdf)
 11. McCalpin, J.P., 2002, Post-Bonneville paleoearthquake chronology of the Salt Lake City segment, Wasatch Fault Zone, from the 1999 megatrench site: Utah Geological Survey, Miscellaneous Publication 02-7, 37 p. (http://ugspub.nr.utah.gov/publications/misc_pubs/MP-02-7WFZ-SLC.pdf)
 10. McCalpin, J.P., Nelson, A.R., Ostenaar, D.A., and Valdez, A., 2002, Neotectonics of the Rio Grande Rift in Colorado; Guidebook to Field Trip 8, Geological Society of America 2002 Annual Meeting, Denver, Colorado: Field Guide No. 2, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 24-Oct-2002, 115 p., DOI: 10.13140/RG.2.2.10905.42087
 9. Ahmad, R., DeGraff, J., and **McCalpin, J.P.**, 1999, Landslide hazard mitigation and loss-reduction; A guide for the Kingston Metropolitan Area, Jamaica: Caribbean Disaster Mitigation Project, Publication 6, Unit for Disaster Reduction, University of the West Indies, Mona, Jamaica, 36 p.
 8. Ahmad, R. and **McCalpin, J.P.**, 1999, Landslide susceptibility maps for the Kingston Metropolitan Area, Jamaica, with notes on their use: Caribbean Disaster Mitigation Project, Publication 5, Unit for Disaster Reduction, University of the West Indies, Mona, Jamaica, 26 p.
 7. McCalpin, J.P. (comp.), 1997, The active geologic environment of Central Colorado; Aspen-Glenwood Springs-Silt, Colorado; Friends of the Pleistocene field trip, Rocky Mountain Cell, Sept. 12-14, 1997: Field Guide No. 1, Crestone Science Center, P.O. Box 837, Crestone, CO 81131, 92 p., DOI: 10.13140/RG.2.2.15099.72481.
 6. McCalpin, J.P. (ed.), 1996, Paleoseismology, 1st Edition: Academic Press, New York, 583 pp.
 5. McCalpin, J.P., 1994, Neotectonic deformation along the East Cache fault zone, Cache County, Utah: Utah Geological Survey Special Study 83, Paleoseismology of Utah, vol. 5, 37 p. (http://ugspub.nr.utah.gov/publications/special_studies/ss-83.pdf)
 4. McCalpin, J.P. (ed.), 1991, Proceedings of the 27th Symposium on Engineering Geology and Geotechnical Engineering, Logan, UT, April 10-12, 1991, 522p.
 3. McCalpin, James (ed.), 1987, Proceedings of the 23rd Symposium on Engineering Geology and Soils Engineering, Logan, UT, April 6-8, 1987, 521 p.
 2. McCalpin, James, 1982, Quaternary geology and neotectonics of the west flank of the northern Sangre de Cristo Mountains, south central Colorado: Colorado School of Mines Quarterly, v. 77, no. 3, 97 p.
 1. McCalpin, James, 1981, Quaternary geology and neotectonics of the west flank of the northern Sangre de Cristo Mountains, south central Colorado: unpublished PhD dissertation T-2452, Colorado School of Mines, Golde, CO, 287 p., DOI: 10.13140/RG.2.2.25742.77129.

Geologic Maps

13. McCalpin, J.P. , Funk, J. and Mendel, D., 2012, Leadville South quadrangle, Lake County, Colorado: Colorado Geological Survey, Denver, CO, scale 1:24,000.
12. McCalpin, J.P., Temple, J., Sicard, K., Mendel, D. and Ahmad, B., 2012, Climax quadrangle geologic map, Lake and Park Counties, Colorado: Colorado Geological Survey, Denver, CO, map scale 1:24,000, booklet 54 p.

11. Shannon, J. and **McCalpin, J.P.**, 2009, Geologic map of the Maysville 7.5 ' quadrangle, Colorado: Open-File Report OF06-10, Colorado Geological Survey, Denver, CO, scale 1:24,000
10. McCalpin, J.P. and Shannon, J., 2005, Geologic map of the Buena Vista West 7.5 ' quadrangle, Colorado: Open-File Report OF05-08, (published March 16, 2005), Colorado Geological Survey, Denver, CO, scale 1:24,000 (<http://dnr.state.co.us/geostore/ProductInfo.aspx?productid=OF05-08>)
9. Keller, John and **McCalpin, J.P.**, 2004, Geologic map of the Buena Vista East 7.5 ' quadrangle, Colorado: Open-File Report OF04-04 (published Jan. 27, 2004), Colorado Geological Survey, Denver, CO, scale 1:24,000 (<http://dnr.state.co.us/geostore/ProductInfo.aspx?productid=OF04-04>)
8. Widmann, B.L., Bartos, P., and **McCalpin, J.P.**, 2003, Geologic map of the Copper Mountain 7.5 ' quadrangle, Colorado: Open-File Report OF03-20 (published Jan. 27, 2004), Colorado Geological Survey, Denver, CO, scale 1:24,000. (<http://dnr.state.co.us/geostore/ProductInfo.aspx?productid=OF03-20>)
7. Wallace, C.A., Keller, J., Bartos, P. and **McCalpin, J.P.**, 2002, Geologic map of the Breckenridge 7.5 ' quadrangle, Colorado: Open-File Report OF02-07 (published Jan. 27, 2004), Colorado Geological Survey, Denver, CO, scale 1:24,000. (<http://dnr.state.co.us/geostore/ProductInfo.aspx?productid=OF02-07>)
6. Machette, M.N., Pierce, K.L., **McCalpin, J.P.**, Haller, K.M. and Dart, R.L., 2001, Map and data for Quaternary faults and folds in Wyoming: U.S. Geological Survey Open-File Report 01-461, 154 p. (also at <http://pubs.usgs.gov/of/2001/ofr-01-0461/>)
5. Brummer, J.E. and **McCalpin, J.P.**, 1995, Geologic map of the Richmond Quadrangle, Cache County, Utah and Franklin County, Idaho: Utah Geological and Mineral Survey Misc. Publication 95-3, scale 1:24,000 with 22 p. text. (http://ugspub.nr.utah.gov/publications/misc_pubs/MP-95-3Richmond.pdf)
4. Evans, J.P., **McCalpin, J.P.** and Holmes, D.C., 1991, Geologic map of the Logan quadrangle, Cache County, Utah: Utah Geological Survey Open File Report 229, 59 p., 2 pl., 1:24,000. (republished as http://ugspub.nr.utah.gov/publications/misc_pubs/MP-96-1Logan.pdf)
3. Brummer, J.E. and **McCalpin, James**, 1990, Geologic map of the Richmond Quadrangle, Cache County, Utah: Utah Geological and Mineral Survey Open-File Report 174, scale 1:24,000
2. McCalpin, James, 1989, Surficial geologic map of the East Cache fault zone, Cache County, Utah: U.S. Geological Survey Miscellaneous Field Investigations Map MF-2107, scale 1:50,000. (http://ugspub.nr.utah.gov/publications/united_states_geological_survey/geologic_maps/mf/MF-2107.pdf)
1. Colman, S. M., **McCalpin, James**, Ostenaar, D. A. and Kirkham, R. M., 1985, Map showing upper Cenozoic rocks and deposits and Quaternary faults, Rio Grande rift, south central Colorado: U.S. Geological Survey Map I 1594, scale 1:125,000

Refereed Journal Papers

38. Gutiérrez, F., Zarroca, M., Linares, R., Roqué, C., Carbonel, D., Guerrero, J., **McCalpin, J.P.**, Comas, X., Cooper, A.H., 2018, Identifying the boundaries of sinkholes and subsidence areas via trenching and establishing setback distances: Engineering Geology, v. 233, p. 255-268.
37. Carbonel, D., Rodríguez-Tribaldos, V., Gutierrez, F., Galve, J.P., Guerrero, J., Zarroca, M., Roque, C., Linares, R., **McCalpin, J.P.**, and Acosta, E., 2015, Investigating a damaging buried sinkhole cluster in an urban area (Zaragoza city, NE Spain) integrating multiple techniques; geomorphological surveys, DInSAR, DEMs, GPR, ERT, and trenching: Geomorphology, v. 229, p. 3-16.
36. Guerrero, J., Bruhn, R.L., **McCalpin, J.P.**, Gutierrez, F., Willis, G. and Mozafari, M., 2014, Salt-dissolution faults versus tectonic faults from the case study of salt collapse in Spanish Valley, SE Utah (USA): Lithosphere, First published online December 11, 2014, doi: 10.1130/L385.1
35. Carbonel, D., Rodríguez, V., Gutierrez, F., **McCalpin, J.**, Linares, R., Roque, C., Zarroca, M., Guerrero, J. and Sasowsky, I., 2014, Evaluation of trenching, ground-penetrating radar (GPR), and electrical resistivity tomography (ERT) for sinkhole characterization: Earth Surf. Proc. Landforms, v. 39, no. 2, p. 214-227, DOI:10/1001/esp.3440.
34. Carbonel, D., Gutiérrez, F., Linares, R., Roqué, C., Zarroca, M., **McCalpin, J.**, Guerrero, J., and Rodríguez, V., 2013, Differentiating between gravitational and tectonic faults by means of geomorphological mapping, trenching and geophysical surveys. The case of the Zenzano Fault (Iberian Chain, N Spain): Geomorphology, v. 189, p. 93–108.

33. Gutierrez, F., Carbonel, D. Guerrero, J., **McCalpin, J.P.**, Linares, R., Roque, C. and Zarroca, M., 2012, Late Holocene episodic displacement on fault scarps related to interstratal dissolution of evaporates (Teruel Neogene Graben, NE Spain): *Journal of Structural Geology*, v. 34, no. 1, p. 2-19.
32. Gutiérrez, F., Carbonel, D., Guerrero, J., McCalpin, J.P., Linares, R., Roque, C., Zarroca, M. and Gutiérrez, M., 2012, ESTUDIO DE FALLAS GRAVITACIONALES GENERADAS POR KARSTIFICACIÓN INTERESTRATAL DE EVAPORITAS EN EL ESTRATO TIPO DEL TUROLIENSE MEDIANTE LA APLICACIÓN DE LA TÉCNICA DEL TRENCHING (LOS MANSUETOS, FOSA DE TERUEL): *Teruel*, v. 94, no. 1, p. 47-82.
31. McCalpin, J.P., Bruhn, R.L., Pavlis, T.L., Gutierrez, F., Guerrero, J. and Lucha, P., 2011, Antislope scarps, gravitational spreading, and tectonic faulting in the western Yakutat microplate, south coastal Alaska: *Geosphere*, v. 7, no. 5, p. 1143-1158.
30. McCalpin, J.P., Harrison, J.B.J., Berger, G.W., and Tobin, H.C., 2011, Paleoseismicity of a low-slip-rate normal fault in the Rio Grande rift, USA; The Calabacillas fault, Albuquerque, New Mexico, in Audemard, F.A., Michetti, A.M. and McCalpin, J.P. (eds.), *Geological Criteria for Evaluating Seismicity Revisited: Forty Years of Paleoseismic Investigations and the Natural Record of Past Earthquakes: Geological Society of America Special Paper 479*, p. 23-46.
29. Refsnider, K.A., Brugger, K.A., Leonard, E.M., **McCalpin, J.P.** and Armstrong, P.P., 2009, Last Glacial Maximum equilibrium-line altitude trends and precipitation patterns in the Sangre de Cristo Mountains, southern Colorado, USA: *Boreas*, v. 38, p. 663-678, doi: 10.1111/j.1502-3885.2009.00097.x. ISSN 0300-9483.
28. Mahan, S.A., Noe, D.C. and **McCalpin, J.P.**, 2009, Use of OSL dating to establish the stratigraphic framework of Quaternary eolian sediments, Anton scarp upper trench, Northeastern Colorado High Plains, USA: *Quaternary International*, v. 199, no. 1-2, p. 92-103. doi:10.1016/j.quaint.2008.09.006
27. Chapman, J.B., Pavlis, T.L., Gulick, S., Berger, A., Lowe, L., Spotila, J., Bruhn, R., Vorkink, M., Koons, P., Barker, A., Picornell, C., Ridgway, K., Hallet, B., Jaeger, J. and **McCalpin, J.**, 2008, Neotectonics of the Yakutat collision; Changes in deformation driven by mass redistribution, in Freymueller, J.T., Haeussler, P.J., Wesson, R.L and Ekstrom, G. (eds.), *Active Tectonics and Seismic Potential of Alaska: Amer. Geophys. Union, Monograph Series*, vol. 179, p. 65-82.
26. Gutiérrez, F.; Masana, E.; Gonzalez, A.; Lucha, P.; Guerrero, J.; and **McCalpin, J.P.**, 2008, Late Quaternary paleoseismic evidence on the Munébrega Half-graben fault (Iberian Range, Spain). *International Journal of Earth Science (Geol. Rundschau)*, DOI 10.1007/s00531-008-0319-y.
25. Gutiérrez, F.; Gutiérrez, M.; Gracia, F.J.; **McCalpin, J.P.**; Lucha, P. and Guerrero, J. , 2008, Plio-Quaternary extensional seismotectonics and drainage network development in the central sector of the Iberian Range (NE Spain). *Geomorphology*, v. 102, p. 21-42, doi: 10.1016/j.geomorph.2007.07.020.
24. McCalpin, J.P., 2005, Late Quaternary activity of the Pajarito fault, Rio Grande rift of northern New Mexico, USA; *Tectonophysics*, v. 408, no.1-4, p. 213-236.
23. Youngs, R. R., Arabasz, W. J., Anderson, R. E., Ramelli, A. R., Ake, J. P., Slemmons, D. B., **McCalpin, J. P.**, Doser, D. I., Fridrich, C. J., Swan, F. H. III, Rogers, A., Yount, J. C., Anderson, L.W., Smith, K.D., Bruhn, R.L., Knuepfer, P.L.K., Smith, R.B., dePolo, C.M., O'Leary, D. W., Coppersmith, K. J., Pezzopane, S. K., Schwartz, D. P., Whitney, J. W., Olig, S. S., and Toro, G. R., 2003, A methodology for probabilistic fault displacement hazard analysis (PFDHA): *Earthquake Spectra* 19, 191–219
22. McCalpin, J.P. and Thakkar, M.G., 2003, 2001 Bhuj-Kachchh earthquake; surface faulting and its relation with neotectonics and regional structures, Gujarat, western India, in Pantosti, D., Berryman, K., Yeats, R. and Kinugasa, Y. (eds.), *Ten Years of Paleoseismology in the ILP, Progress and Prospects: Annals of Geophysics*, v. 46, no. 5, p. 937-956.
21. Bursik, M., C. Renshaw, **J. McCalpin**, and M. Berry, 2003, A volcanotectonic cascade: Activation of range front faulting and eruptions by dike intrusion, Mono Basin-Long Valley Caldera, California, *J. Geophys. Res.*, 108(B8), 2393, doi:10.1029/2002JB002032.
20. Zuchiewicz, W. and **McCalpin, J.P.**, 2000, Geometry of faceted spurs on an active normal fault; case study of the central Wasatch fault, Utah, USA: *Annales Societatis Geologorum Poloniae*, v. 70, p. 231-249.
19. Hadlock, G.L., Lachmar, T.E., and **McCalpin, J.P.**, 1997, The relationship between the water table and the surface flow of a losing stream, lower Medano Creek, Great Sand Dunes National Monument, Colorado: *Environmental Geology*, 30 (1/2): 10-16.
18. McCalpin, J.P. and Shlemon, R.J., 1996, Trenching as a tool in geologic investigations: *The Professional Geologist*, 33(12):19-22.

17. McCalpin, J.P. and Berry, M.E., 1996, Soil catenas to estimate ages of movements on normal fault scarps, with an example from the Wasatch fault zone, Utah, USA: *Catena* 27:265-286.
16. McCalpin, J.P. and Niskenko, S.P., 1996, Holocene paleoseismicity, temporal clustering, and probabilities of future large ($M > 7$) earthquakes on the Wasatch fault zone, Utah: *Journal of Geophysical Research*, v. 101(B3), p. 6233-6253.
15. McCalpin, J.P., 1996, Tectonic geomorphology and Holocene paleoseismicity of the Molesworth section of the Awatere Fault, South Island, New Zealand: *New Zealand Journal of Geology & Geophysics*, v. 39, no. 1, p.33-50.
14. McCalpin, J.P., 1995, Frequency distribution of geologically-determined slip rates for normal faults in the western USA: *Bulletin of the Seismological Society of America*, v. 85, no. 6, p. 1867-1872.
13. McCalpin, J.P. and Irvine, J.R., 1995, Sackungen at Aspen Highlands Ski Area, Pitkin County, Colorado: *Environmental and Engineering Geoscience*, v.1, no. 3, p. 277-290.
12. McCalpin, J.P. and Khromovskikh, V.S., 1995, Holocene paleoseismicity of the central Tunka Fault, Baikal Rift Zone, Russia: *Tectonics*, v.14, no. 3, p. 594-605.
11. McCalpin, James, Forman, S.L. and Lowe, M., 1994, Reevaluation of Holocene faulting at the Kaysville site, Weber segment of the Wasatch fault zone, Utah: *Tectonics*, v. 13, no. 1, p.1-16.
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2013-SEPT: **Logan Lecture**, Geological Survey of Canada, Ottawa, CANADA; Dr. Jim McCalpin, GeoHaz Consultants, AEG/GSA Jahns Distinguished Lecturer. "The Mountains are Falling Apart: A Spectrum of Mass Failures from Landslides through Deep-Seated Gravitational Spreading (Sackung) to `Unfolding' of Folds"

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