

## *curriculum vitae*

### **Christopher J. Pluhar**

California State University, Fresno  
Dept. of Earth and Environmental Sciences  
576 East San Ramon Avenue M/S ST24  
Fresno, California 93740

office – (559)278-1128      message - (559)278-3086      FAX – (559)278-5980  
[cpluhar@csufresno.edu](mailto:cpluhar@csufresno.edu)      [www.fresnostate.edu/csm/pluhar](http://www.fresnostate.edu/csm/pluhar)

#### **Professional Training**

University of California, Santa Cruz	postdoctoral fellow, Earth Sciences	2004-2007
University of California, Santa Cruz	Ph.D., Earth Sciences	2003
California Institute of Technology	B.S., Geology	1991

#### **Employment/Appointments/Other Positions**

Associate Professor	California State University, Fresno	2013-present
Research Associate	University of California, Santa Cruz	2007-present
Volunteer	US Geological Survey, Geophysics Unit of Menlo Park	2012-present
Volunteer	Sierra National Forest	2013-2014
Assistant Professor	California State University, Fresno	2007-2013
Lecturer	University of California, Santa Cruz	2004-2007
Post-doctoral Researcher	University of California, Santa Cruz	2004-2007
Teaching Assistant	University of California, Santa Cruz	1996-2001
Graduate Student Researcher	University of California Santa Cruz	1996-2003
Consulting Geologist	Parsons Engineering Science Inc.	1991-1996
Research Assistant	California Institute of Technology	1988-1991

#### **Teaching Experience (at CSU Fresno)**

EES 1	Natural Disasters & Earth Resources	~2 sections annually since 2007
EES 3	Geology Field Trip	Fall 2010 & 2012
EES 8H	Natural Disasters & Earth Resources	Spring 2015 & 2017
EES 30	Introductory Field Methods	annually since 2007
EES 112	Planet Earth Through Time (online course)	Spring & Fall 2009
EES 114	Engineering Geology	annually since 2007
EES 130T	Global and Active Tectonics	Spring 2014
EES 201	Seminar in Geology (Graduate Scientific Writing)	annually since 2009
EES 202	Teaching Assistant Training	annually since 2014
EES 130T or 250T	Paleomagnetism & Geomagnetism	Spring 2008, 2010, Fall 2014
EES 250T	Mine Reclamation	Spring 2012 & 2016
EES 250T	Geochronology	Fall 2012 & 2015

#### **Teaching Experience (at UC Santa Cruz)**

Lecturer EART 10/10L	Physical Geology	Spring 2007
Lecturer EART 109/109L	Introductory Field Methods	Spring 2006
Lecturer EART 80A	Earth Catastrophes	Fall 2005
Lecturer EART 152/207	Tectonics	Spring 2004
Instructor EART 196A/203	Teaching Assistant Training Seminar	2000, 2001
Teaching assistant EART 113	Physics in the Earth Sciences	1996-99, 2001
Teaching assistant EART 80	Water Planet	1999

Teaching assistant EART 8	Earth Catastrophes	1997, 1998
Teaching assistant EART 188A	Advanced Field Mapping, Poleta Folds, CA	1997, 1998
Teaching assistant EART 80	Earthquakes and You	1996
Teaching assistant EART 154	Paleomagnetism	1996

### **Continuing Student Supervision (in alphabetical order)**

- Sarah Redondo, senior thesis project in process
- Wynter Erickson, senior thesis project in process
- Trevor Geldhill, senior thesis project in process
- Casey Polon, M.S. project in process
- Rosalie Schubert, M.S. project in process
- Wayne Nick, M.S. project entitled *Paleomagnetism of the Lodo Formation: Magnetostratigraphy, a Detailed Look at the Paleocene-Eocene Boundary, and Kinematics of the Vallecitos Syncline.*
- M. Preston Ward, senior thesis project entitled *Further Test of Correlation of the Golden Bear Dike with Coso Dikes: 83 Ma Piercing Points Across the Owens Valley*

### **Completed Student Supervision (in chronological order, most recent first)**

- Nicole Aldrich, senior thesis project entitled \_\_\_\_\_, **completed spring 2016**
- Kou Yang, senior thesis project entitled *Paleomagnetism of the Lodo Formation and Kinematic Evolution of the Vallecitos Syncline, Coast Ranges, Central California*, **completed spring 2016**
- Scott Mitchell, senior thesis project entitled *Using paleothalwegs to learn about the Sierra Nevada: Mapping and GIS analysis of the Miocene Stanislaus Group, California*, **completed spring 2016**
- Samuel Johnson, senior thesis project entitled *Paleomagnetism and Lithostratigraphy of the Miocene Tuff of Huntoon Creek Type Section*, **completed spring 2015**
- Julie Rieth, senior thesis project *Looking for normal in the Lodo Gulch: magnetostratigraphy across the Paleocene-Eocene Thermal Maximum*, **completed spring 2015**
- Kiersti Ford, M.S. project entitled *Quantifying Landslide Frequency in Sierra Nevada: Cosmogenic Dating of the Tilt Slide in Tuolumne, California*, **completed spring 2014, in prep**
- Justin Lindeman, senior thesis project entitled *Kinematics of the Central Walker Lane Using Paleomagnetism of the Jack Spings Tuff*, **completed spring 2014**
- Shelby Frederickson, senior thesis project entitled *Kinematics of deformation in west-central Walker Lane; Paleomagnetic testing of fault-block rotation and doming models, eastern California and western Nevada*, **completed spring 2014**
- Shelby Jones, senior thesis project entitled *Uplifted or Not? Using the Stanislaus Group as a Tilt Meter Across the Sierra Nevada*, **completed spring 2014**
- Juanita Muniz, M.S. project entitled *Geochronology and Correlation of the Pleistocene Turlock Lake and Tulare Formations* **completed fall 2013**
- Bryan Shrum, senior thesis project entitled *Geologic Mapping of Rancheria Mountain, Hetch Hetchy, California* **completed spring 2013**
- Chad Carlson, M.S. project entitled *Structure, Stratigraphy and Paleomagnetism of Miocene Volcanics of the Sweetwater Range and Bodie Hills, CA: Tectonics and Kinematics of the Formation of the Sierra Nevada Micorplate* **completed spring 2012, published.**
- Tiffany Steinert, senior thesis project entitled *Geologic Mapping of Devil's Punchbowl, California* **completed spring 2012**
- Michael Farner, senior thesis project entitled *Paleomagnetism of the Stanislaus Group Type Section: Establishing Miocene Reference Directions for the Stable Sierra Nevada* **completed spring 2012, in prep**
- Owen Kubit, M.S. project entitled *A Decision Model for Geomorphic Reclamation of Abandoned Mines* **completed spring 2012, published**

- Anna G. Brody, M.S. project entitled *GIS Mapping of Rockfall Debris in Yosemite Valley Using High Resolution LiDAR Data* **completed spring 2011, published**
- Juanita Muniz, senior thesis project entitled *Paleomagnetism and Geochemistry of the Trachyandesite of Kennedy Table: Source, Age and Implications for Sierra Nevada Uplift* **completed fall 2010**
- Rudolph Siwy, senior thesis project entitled *Exploring the Relationship Between Structure, Slope Stability and Merced River Geomorphology around the Ferguson Slide* **completed spring 2010**
- My My Ngo, senior thesis project entitled *Testing Correlation of the Golden Bear Dike with Coso Dikes: Did 65 km of Dextral Offset Occur Across Owens Valley, CA Since 83 Ma?* **completed fall 2009**
- Alysia Mejia (aka Alysia Hall), senior thesis project entitled *Rock Slope Stability Analysis at Rush Creek Falls, Sierra National Forest, CA* **completed spring 2009**

### University Service

Geology Graduate Program Coordinator		7/2015- present
Campus Planning Committee	CSM representative	1/2014– present
EES Dept Teaching Assistant Coordinator		1/2014– present
EES Dept Geophysics Faculty Search Committee	member	1/2014 – 3/2014
College of Science & Mathematics Budget & Space Committee	member	8/2012 – 8/2013
EES Dept Hydrology Faculty Search Committee	member	8/2011 – 3/2012
EES Dept Sedimentary Geology Faculty Search Committee	member	8/2011 – 3/2012
CSU Fresno Campus Sustainability Subcommittee	member	10/2008 – 6/2011
College of Science & Mathematics Research Committee	member	1/2009 – 6/2011
Earth Day 2010 planning committee	member	Spring 2010
Earth Day 2009 planning committee	chair	Spring 2009
College of Science & Mathematics Curriculum Committee	member	1/2008 – 12/2009
EES Dept. Instructional Support Technician Search Committee	member	Fall 2008
EES Dept. Space Redesign Committee	chair	Fall 2007

### Professional Societies

American Geophysical Union  
 Association of Engineering & Environmental Geologists  
 Geological Society of America

### Publications

- DeGraff, J.V., **Pluhar, C.J.**, Gallegos, A. Origin and Management of the Mono Hot Springs of Inyo County, CA, *Environmental and Engineering Geosciences*, in prep.
- Bader, N.E., Spencer, P.K., Bailey, A.S., Gastineau, K.M., Tinkler, E.R., **Pluhar, C.J.** Bjornstad, B.N., 2016. A loess record of pre-Late Wisconsin glacial outburst flooding, Pleistocene paleoenvironment, and Irvingtonian fauna from the Rulo site, southeastern Washington, USA, *Palaeogeography, Palaeoclimatology, Palaeoecology*, doi: 10.1016 /j.palaeo.2016.08.042.
- Brody, A.G, **Pluhar, C.J.**, Stock, G.M., 2015. Near-surface geophysical imaging of a talus deposit in Yosemite Valley, California, *Environmental and Engineering Geosciences*, Vol. 21, no. 2, p. 111-127, doi: 0.2113/gseegeosci.21.2.111.
- Kubit, Owen E., **Pluhar, C.J.**, De Graff, Jerome D, 2014. A model for prioritizing sites and reclamation methods at abandoned mines, *Environmental Earth Sciences*, p. 1-17, doi: 10.1007/s12665-014-3949-3.
- Carlson, C.W., **Pluhar, C.J.**, Glen, J.M., Farner, M.J., 2013 Kinematics of the west-central Walker Lane: Spatially and temporally variable rotations evident in the Late Miocene Stanislaus Group. *Geosphere*, Vol. 9, no. 6, p. 1–22, doi:10.1130/GES00955.1.
- Gogutchichvili, A., Gonzalez, J.A., **Pluhar, C.J.**, Alva-Valdivia, L., Elguera, J.R., Ruiz-Martinez, V.C., Sole, J., Zhao, X., Coe, R.S., Caballero, C., 2011. A comprehensive rock-magnetic,

- paleomagnetic, paleointensity and geochronologic study along the western Trans-Mexican Volcanic Belt: geodynamic and geomagnetic implications, *Geofisica Internacional*, Vol. 50, no. 2, pp. 227-254.
- Pluhar, C.J.**, Deino, A.L., King, N.M., Busby, C.J., Hausback, B.P., Wright, T., and Fischer, C., 2009. Lithostratigraphy, magnetostratigraphy and radio-isotopic dating of the Stanislaus Group, CA, and age of the Little Walker Caldera, *International Geology Review*, Vol. 51, no. 9, pp. 873-899.
- Gorny, C., Busby, C.J., **Pluhar, C.J.**, Hagan, J., and Putirka, K., 2009. An in-depth look at distal Sierra Nevada paleochannel fill: Drill cores through the Table Mountain Latite near Knights Ferry, *International Geology Review*, Vol. 51, no. 9, pp. 824-842.
- Koerner, A., Busby, C.J., Putirka, K., and **Pluhar, C.J.**, 2009. New evidence for alternating effusive and explosive eruptions from the type section of the Stanislaus Group in the “Cataract” paleocanyon, central Sierra Nevada, *International Geology Review*, Vol. 51, no. 9, pp. 962-985.
- Morris, E.R., Schillinger, W., Coe, R.S., **Pluhar, C.J.**, and Jarboe, N.A., 2009. Automating the 2G superconducting rock magnetometer for single-solenoid alternating field demagnetization, *Geochemistry, Geophysics, Geosystems*, v.10, Q05Y05, doi:10.1029/2008GC002289.
- Busby, C.J., Hagan, J., Putirka, K., **Pluhar, C.J.**, Gans, P., Rood, D., DeOreo, S., Skilling, I., Wagner, D. 2008. The ancestral Cascades arc: Cenozoic evolution of the central Sierra Nevada (California) and the birth of the new plate boundary. In: *GSA special paper vol. 438, Ophiolites, Arcs and Batholiths: a Tribute to Cliff Hopson*, ed: Wright, J. and Shervais, J., pp. 331-378.
- King, N.M., Hillhouse, J.W., Gromme, S., Hausback, B.P., and **Pluhar, C.J.**, 2007. Stratigraphy, paleomagnetism, geochemistry, and anisotropy of magnetic susceptibility of the Miocene Stanislaus Group, central Sierra Nevada and Sweetwater Mountains, California and Nevada, *Geosphere*, Vol. 3, no. 6, pp. 646-666.
- Lewis, C.J., Twiss, R.J., **Pluhar, C.J.**, and Monastero, F.C., 2007. Multiple constraints on divergent strike-slip deformation along the eastern margin of the Sierran microplate, SE California. In: *GSA special paper vol. 434, Exhumation associated with continental strike-slip fault systems*, ed: Till, A.B., Roeske, S.M., Sample, J.C., Foster, D.A., pp. 107-128.
- Pluhar, C.J.**, Coe, R.S., Lewis, J.C., Monastero, F.C., and Glen, J.M.G., 2006. Fault block kinematics at a releasing stepover of the Eastern California Shear Zone; partitioning of rotation style in and around the Coso geothermal area and nascent metamorphic core complex. *EPSL*, v.250(1-2), pp. 134-163.
- Pluhar, C.J.**, Bjornstad, B.N., Reidel, S., Coe, R.S., Nelson, P.B., 2006. Magnetostratigraphic evidence from the Cold Creek bar for onset of ice-age cataclysmic floods in eastern Washington during the early Pleistocene. *Quaternary Research*, v. 65(1), pp. 123-135.
- Busby, C.J., Wagner, D., Hagan, J., Putirka, K., **Pluhar, C.J.**, Gans, P., Rood, D., and Skilling, I., 2006, Mapping of Cenozoic volcanic rocks in the central high Sierra: Clues to understanding landscape evolution and range-front faulting. In: *Geology of the Central Sierra, NAGT Far Western Section field trip guidebook, September 29 - October 1, 2006, Sonora California*, pp. 1-53.
- Pluhar, C.J.**, 2006. An expanded kinematic and geochronologic study of the White Hills anticline and White Hills lake beds. *Technical Report N68936-04-C-0062* to U.S. Dept. of Defense, Naval Air Warfare Center, Geothermal Program Office, China Lake, CA.
- Pluhar, C.J.**, Coe, R.S., Sampson, D.E., Glen, J.M.G., Monastero, F.C., and Tanner, S.B., 2005. Lava fingerprinting using paleomagnetism and innovative X-ray fluorescence spectroscopy; a case study from the Coso volcanic field, California. *Geochemistry, Geophysics, Geosystems*, v.6, Q04001, doi:10.1029/2004GC000707.
- Pluhar, C.J.**, 2004. Paleomagnetism of Drillcore C3826/E17-22 and C3827/E17-23 Sediments, Hanford, WA. Technical report for Battelle Memorial Institute and Pacific Northwest National Laboratory.
- Lewis, C.J. and **Pluhar, C.J.**, 2003. Pliocene to Recent Kinematics of the Wild Horse Mesa and Coso Wash: An Integrated Study Using Micropolar Theory and Paleomagnetic Determinations to Examine Spatial and Temporal Variations in Strain. *Technical Report N68936-01-C-0094* to U.S. Dept. of Defense, Naval Air Warfare Center, Geothermal Program Office, China Lake, CA.

- Pluhar, C.J.** and Coe, R.S., 2002. Paleomagnetism of Kiona Quarry and Corehole E33-338, W19-44, and W22-48 Sediments, Hanford, WA. Technical report for Battelle Memorial Institute and Pacific Northwest National Laboratory.
- Pluhar, C.J.** and Coe, R.S., 2002. Paleomagnetism of Corehole E24-21, W10-27, W11-39, W19-43, and W23-21 Sediments, Hanford, WA. Technical report for Battelle Memorial Institute and Pacific Northwest National Laboratory.
- Bjornstad, B.N., Fecht, K.R., **Pluhar, C.J.**, 2001. Long History of Pre-Wisconsin, Ice-Age Cataclysmic Floods: Evidence from Southeastern Washington State. *Journal of Geology*, v. 109, no. 6, pp. 695-713.
- Pluhar, C.J.** and Coe, R.S., 2000. Paleomagnetism of Borehole E33-335, W22-48 and W22-50 Sediments, Hanford, WA. Technical report for Battelle Memorial Institute and Pacific Northwest National Laboratory.
- Pluhar, C.J.** and Coe, R.S., 1999. Paleomagnetism of Borehole 299-E17-21 Sediments, Hanford, WA. Technical report for Battelle Memorial Institute and Pacific Northwest National Laboratory.
- Downey, D.C., **Pluhar, C.J.**, Archabal, S.R., 1995. Performance and Cost Evaluation of Purus PADRE Regenerative Resin System for the Treatment of Hydrocarbon Vapors from Fuel-Contaminated Soils. Report to United States Air Force by Parsons Engineering Science Inc., Denver, CO, 30 pp.
- Pluhar, C.J.**, Holt, J.H., Kirschvink, J.L., Beratan, K., Adams, R.W., 1992. Magnetostratigraphy of the Plio-Pleistocene Lake Sediments in the Confidence Hills of Southern Death Valley, California. San Bernardino County Museum Association Quarterly, v. 39, no. 2, pp. 12-19. See <http://es.ucsc.edu/~cpluhar/PluharDeathValley.pdf>
- Pluhar, C.J.**, Kirschvink, J.L., Adams, R.W., 1991. Magnetostratigraphy and Clockwise Rotation of the Plio-Pleistocene Mojave River Formation, Central Mojave Desert, California. San Bernardino County Museum Association Quarterly, v. 38, no. 2, pp. 31-42. See <http://es.ucsc.edu/~cpluhar/PluharMojaveRiver.pdf>

### **Selected Conference Abstracts**

- Mitchell, S.C., **Pluhar, C.J.**, 2016. Using paleothalwegs to learn about the Sierra Nevada: mapping and GIS analysis of the Miocene Stanislaus Group, California, Geological Society of America, Cordilleran Section meeting.
- Aldrich, N.C., **Pluhar, C.J.**, Gibbs, S., Rieth, J.A., 2016. Magnetostratigraphy in the Lodo Formation, CA: An Attempt to Locate Hyperthermals of the Early Eocene, Geological Society of America, Cordilleran Section meeting.
- Aldrich, N.C., **Pluhar, C.J.**, Gibbs, S., Rieth, J.A., 2015. [Magnetostratigraphy in the Lodo Formation, CA: An Attempt to Locate Hyperthermals of the Early Eocene](#), American Geophysical Union, Fall Meeting, abstract #GP31A-1382.
- Yang, K., Rieth, J.A., **Pluhar, C.J.**, 2015. [Paleomagnetism of the Lodo Formation and kinematic evolution of the Vallecitos Syncline, Coast Ranges, Central California](#), American Geophysical Union, Fall Meeting, abstract #GP31A-1373.
- Schubert, R., **Pluhar, C.J.**, Carlson, C.W., Jones, S.A., 2015. [Lithology, Geochemistry and Paleomagnetism of the Table Mountain Formation at the Little Walker Caldera](#), American Geophysical Union, Fall Meeting, abstract #GP31A-1362.
- Petronis, M., Trevino, S.F., Gordon, L., Castillo, G., Lemen, D., **Pluhar, C.J.**, 2015. Deformation across the eastern Mono Basin, Adobe Hills, California revealed via preliminary paleomagnetic data, Abstracts with Programs - Geological Society of America Vol. 47, No. 7, p.161.
- Rieth, J.A. and **Pluhar, C.J.**, 2015. Looking For Normal In The Lodo Gulch: Magnetostratigraphy Across The Paleocene-Eocene Thermal Maximum, Pacific Section AAPG Convention.
- Rieth, J.A. and **Pluhar, C.J.**, 2015. Looking For Normal In The Lodo Gulch: Magnetostratigraphy Across The Paleocene-Eocene Thermal Maximum, Association of Environmental and Engineering Geologists Sacramento Student Night.

- Johnson, S., **Pluhar, C.**, Lindeman, J., 2014. Paleomagnetism and Lithostratigraphy of the Miocene Tuff of Huntoon Creek Type Section, American Geophysical Union, Fall Meeting, abstract #GP21A-3651.
- Shields, S.J., Petronis, M., **Pluhar, C.J.**, Gordon, L., 2014. Paleomagnetism and Anisotropy of Magnetic Susceptibility study of the Miocene Jack Springs Tuff (Nevada, USA), American Geophysical Union, Fall Meeting, abstract #GP21A-3645.
- Delmanowski, R., Mushegan, A., Brady, M., **Pluhar, C.**, 2014. Investigating the Sedimentary Response and its Role in Climate Feedbacks Associated with the Paleocene Eocene Thermal Maximum in a Continental Shelf Setting: Lodo Gulch, Lodo Formation, CA American Geophysical Union, Fall Meeting, abstract #PP13A-1380.
- Pluhar, C.J.**, Burns, S., Carpenter, B., Yazzie, K., Melton, D., 2014. Paleomagnetism of early and middle Pleistocene cataclysmic flood deposits in the Pacific Northwest American Geophysical Union, Fall Meeting 2014, abstract #GP21A-3653.
- Pluhar, C.J.**, Carpenter, B., Yazzie, K., Melton, D., Burns, S., 2014. Early and middle Pleistocene cataclysmic flood deposits at the Dalles, OR, Abstracts with Programs - Geological Society of America, vol. 46, no. 6, p. 591.
- Muniz, J., **Pluhar, C.J.**, Trayler, R.B., Bowles, J., 2014. Magnetostratigraphy and paleomagnetic analysis of the Tulare and Turlock Lake Formations, San Joaquin Valley, California. Abstracts with Programs - Geological Society of America, vol. 46, no. 6, p. 147.
- Ford, K.R., **Pluhar, C.J.**, Stock, G.M., Stone, J.O.H., and Zimmerman, S.R., 2014. Cosmogenic beryllium-10 exposure dating of the Tiltill Rock Avalanche in Yosemite National Park. Abstracts with Programs - Geological Society of America, vol. 46, no. 6, p. 714.
- Ford, K.R., **Pluhar, C.J.**, Stone, J.O.H., Stock, G.M., and Zimmerman, S.R., 2013. Cosmogenic nuclide exposure dating of the Tiltill Rock Avalanche, Yosemite National Park, American Geophysical Union, Fall Meeting, abstract #NH21A-1495.
- Jones, S.A., **Pluhar, C.J.**, Farner, M.J., Deino, A.L., 2013. Correlation and analysis of Miocene paleochannels in the central Sierra Nevada, California, as displayed by the Stanislaus Group. American Geophysical Union, Fall Meeting, abstract #GP41A-1109.
- Fredrickson, S.M., **Pluhar, C.J.**, Carlson, C.W., 2013. Kinematics of deformation in the West-Central Walker Lane; paleomagnetic testing of fault-block rotation and doming models, Eastern California and Western Nevada. American Geophysical Union, Fall Meeting, abstract #GP41A-1103.
- Lindeman, J.R., **Pluhar, C.J.**, Farner, M.J., 2013. Post-middle Miocene Tuffs: Vertical Axis Rotation from Paleomagnetic Analysis within Bodie Hills and Mono Basin, Eastern California and Western Nevada. American Geophysical Union, Fall Meeting, abstract #GP41A-1113.
- Kubit, O., **Pluhar, C.J.**, DeGraff, J.V., 2013. A Model for Prioritizing Sites and Reclamation Methods at Abandoned Mines. AEG Annual Meeting.
- Carlson, C.W., **Pluhar, C.J.**, Glen, J.M., Farner, M.J., 2012. Changes in Central Walker Lane Strain Accommodation near Bridgeport, California; as told by the Stanislaus Group. American Geophysical Union, Fall Meeting, abstract #GP21A-1128.
- Farner, M.J., **Pluhar, C.J.**, Asami, R.T., Putirka, K.D., Busby, C.J., and Renne, P.R., 2012. Paleomagnetism, Geochronology, and Geochemistry of the Type Section of the Stanislaus Group: Reference Parameters from the Stable Sierra Nevada Microplate, CA. American Geophysical Union, Fall Meeting, abstract #GP21A-1141.
- Farner, M.J., **Pluhar, C.J.**, Carlson, C.W., 2011. Comparison of geologically-averaged paleomagnetic and “instantaneous” GPS rotation data in the West-Central Walker Lane. American Geophysical Union, Fall Meeting, abstract #T23D-2422.
- Trayler, R.B., **Pluhar, C.J.**, Bowles, J.A., 2011. Rock Magnetic Investigation of the Turlock Lake Formation: Which Produce the Correct Magnetostratigraphy, AF or Thermal Demagnetization?. American Geophysical Union, Fall Meeting, abstract #GP51B-1172.
- Nick, W., **Pluhar, C.J.**, Kemp, C., 2011. Preliminary Paleomagnetism of Paleocene-Eocene Boundary of the Lodo Formation. American Geophysical Union, Fall Meeting, abstract #GP11A-1002.

- Muniz, J.F., **Pluhar, C.J.**, Masutsubo, N., Holcomb, R.E., Nick, W., Lessel, J., Jackson, J.L., Jackson, B.A., 2011. Paleomagnetic Analysis of the Auberry Formation, California, to determine the source and age. American Geophysical Union, Fall Meeting, abstract #GP33C-0968
- Traylor, R.B., **Pluhar, C.J.**, 2010. High Resolution Magnetostratigraphy of the Middle Pleistocene Turlock Lake Formation, California. American Geophysical Union, Fall Meeting, abstract #GP13A-0764
- Carlson, C.W., **Pluhar, C.J.**, Glen, J.M., 2010. Tectonic Tales: Changes in Central Walker Lane Strain Accommodation near Bridgeport, California; as told by the Stanislaus Group. American Geophysical Union, Fall Meeting, abstract #GP11A-0746
- Busby, C.J., Hagan, J.C., Koerner, A.A., Putirka, K., **Pluhar, C.J.**, Melosh, B.J., 2010. Birth of a Plate Boundary. Abstracts with Programs - Geological Society of America, vol. 42, no. 4, pp. 80.
- Brody, A.G, **Pluhar, C.J.**, Stock, G.M., and Sas, R.J., 2009. Quantifying post-glacial talus deposition in Yosemite Valley using GIS and geophysics. Abstracts with Programs - Geological Society of America, vol.41?, no.?, p.?.
- Busby, C.J., Koerner, A.A., Hagan, J.C., Putirka, K., **Pluhar, C.J.**, 2009. Volcanism due to transtension at the birth of the Sierra Nevada Microplate: similarities to ongoing rupture at nearby Long Valley. Abstracts with Programs - Geological Society of America, vol.41, no.7, pp. 292.
- Carlson, C.W., Wakabayashi, J., **Pluhar, C.J.**, 2009. Field relations and age of Late Cenozoic volcanic units inset within the mid-upper San Joaquin River drainage, CA. Abstracts with Programs - Geological Society of America, vol.41, no.7, p.293.
- Pluhar, C.J.**, Ngo, M.M., Larsen, M.T., Carlson, C.W., 2009. Testing correlation of the Golden Bear and Coso dikes in eastern California: implication for dike emplacement and tectonic reconstruction since 83 Ma. Abstracts with Programs - Geological Society of America, vol.41, no.7, p.137.
- Pluhar, C.J.**, Kemp, C.D., Larsen, M.T., Ngo, M.M., Carlson, C.W., Smart, C.M., 2008. 65 km of Post-Cretaceous Offset Across Owens Valley, CA? Constraints Using Paleomagnetism. AGU 2008 Fall meeting, Eos, Transactions, American Geophysical Union.
- Pluhar, C.J.**, Wright, T., Fischer, C., Busby, C.J., 2007. Paleomagnetism of the Stanislaus Group, CA reveals revised stratigraphy, Walker Lane kinematics, and radio-isotopic constraints on C5 magnetic subchrons. AGU 2007 Fall meeting, Eos, Transactions, American Geophysical Union.
- Pluhar, C.J.**, Stock, G., Bjornstad, B.N., Coe, R.S., Finkel, R.C., Anderson, R.S., and Reidel, S. 2005. Combined Cosmogenic Burial Dating and Magnetostratigraphy of pre-LGM Cataclysmic Flood Sediments, Pasco Basin, WA, Abstracts with Programs - Geological Society of America, vol.37
- Pluhar, C.J.**, Nomade, S., Glen, J.M.G., Coe, R.S., and Renne, P., 2004. Magnetostratigraphy, Geochronology and Geochemical Evolution of the Pliocene Coso Volcanic Field, CA and Contemporaneity with Sierra Nevada Delamination. Abstracts with Programs - Geological Society of America, vol 36, no. 5
- Pluhar, C.J.**, Nomade, S., Glen, J.M.G., Coe, R.S., and Renne, P., 2003. Jaramillo, Cobb Mtn., or Punaruu? - Re-examination of "Cobb Mtn. Event" Lavas at the Coso Volcanic Field, CA. AGU 2003 Fall meeting, Eos, Transactions, American Geophysical Union,
- Pluhar, C.J.**, Stock, G., Finkel, R.C. Anderson, R.S., Coe, R.S., Reidel, S., Bjornstad, B.N., 2003. Cosmogenic Burial Dating and Magnetostratigraphy of Early and Mid-Pleistocene Missoula Flood Sediments, Hanford, WA, Abstracts with Programs - Geological Society of America, vol.35, no.6, pp.217.
- Pluhar, C.J.**, Bjornstad, B.N., Reidel, S., Coe, R.S., Nelson, P.B., 2002 Updated Magnetostratigraphy of Ice Age Flood Deposits of the Cold Creek Bar at the Hanford Site, Southeastern Washington. AGU 2002 Fall meeting, Eos, Transactions, American Geophysical Union, vol.83
- Pluhar, C.J.**, Reidel, S., Bjornstad, B.N., Nelson, P.B., Coe, R.S., 2002 New Magnetostratigraphic Analysis Indicates that Onset of Pleistocene Cataclysmic Flooding Predates 1.07 Ma in East-Central Washington. Abstracts with Programs - Geological Society of America, vol.34, no.5, pp.25.
- Pluhar, C.J.**, Coe, R.S., and Glen, J.M.G., 2001. Rotated and Tilted Domains within the Coso Range, CA; Paleomagnetism and Geochemical Correlation of Pliocene Lavas Provides Clues to

- Formation of the Coso Geothermal Field, AGU 2001 Fall meeting, Eos, Transactions, American Geophysical Union, vol.82, no.47, Suppl., p.314.
- Pluhar, C.J.**, Coe, R.S., and Glen, J.M.G., 2001. Paleomagnetism and Geochemical Correlation of Pliocene Lavas Reveals Block Rotation and Tilting in the Wildhorse Mesa and Coso Range, CA. Geothermal Program Office Technical Symposium.
- Coe, R.S., Zhao, X.; Lyons, John J.; **Pluhar, C.J.**; Mankinen, Edward A Revisiting the 1964 collection of Nunivak lava flows Eos, Transactions, American Geophysical Union, vol.81, no.48, Suppl., pp.F350, 28 Nov 2000
- Pluhar, C.J.**, Glen, J.M.G., and Coe, R.S., 2000. Paleomagnetism and Geochemical Correlation of Pliocene Lavas Reveals Block Rotation in the Coso Range, CA. AGU 2000 Fall meeting, Eos, Transactions, American Geophysical Union, vol.81, no.48, Suppl., p.363.
- Pluhar, C.J.**, Bjornstad, B.N., Coe, R.S., Reidel, S., 2000. Magnetostratigraphy of Early-Pleistocene Cataclysmic Flood Deposits Beneath the Hanford Site, East-Central Washington. Abstracts with Programs - Geological Society of America, vol.32, no.7, p.173.
- Pluhar, C.J.**, Glen, J.M.G., and Coe, R.S., 1999. Plio-Pleistocene Magnetostratigraphy and Block Rotation in the Coso Range, CA. AGU 1999 Spring meeting, Eos, Transactions, American Geophysical Union, vol.80, no.17, Suppl., p.91.
- Pluhar, C.J.** Croteau, D., and Coe, R.S., 1998. Correlating Lavas of the Sweetwater Mountains, California with the Stanislaus Group, Table Mountain Latite Member; Paleomagnetic Constraints. AGU 1998 fall meeting, Eos, Transactions, American Geophysical Union, vol.79, no.45, Suppl., p.219.
- Pluhar, C.J.** and Coe, R.S., 1997. Preliminary Data Suggest Counter-clockwise Rotation of Waucoba Lake Sediments, Owens Valley, CA. AGU 1997 fall meeting, Eos, Transactions, American Geophysical Union, vol.78, no.46, Suppl., p.189.
- Pluhar, C.J.** and Coe, R.S., 1996. Paleomagnetism of the Stanislaus Group, Table Mountain Latite Member, Sierra Nevada, CA. AGU 1996 fall meeting, Eos, Transactions, American Geophysical Union, vol.77, no.46, Suppl., p.158.
- Downey, D.C., **Pluhar, C.J.**, Dudus, L.A., et al., 1994. Remediation of Gasoline-Contaminated Soils Using Regenerative Resin Vapor Treatment and *In Situ* Bioventing. Presented at the Petroleum Hydrocarbon and Organic Chemicals in Groundwater - Prevention, Detection, and Restoration Conference, Houston, TX, November 1994.
- Dudus, L. and **Pluhar, C.J.**, 1993. Basic Field Screening Techniques to Evaluate the Feasibility of Bioventing: Two Case Studies. Presented at the West Hazmat Conference, Long Beach, CA, May 1993.
- Holt, J.W., **Pluhar, C.J.**, and Kirschvink, J.L., 1991. A Detailed Study of the Upper Olduvai Geomagnetic Reversal and Its Implications for Transition Field Geometry. GSA Abstracts with Programs, v. 23, no. 5, p. 92.

### **Fellowships and Honors**

- Outstanding Teaching nomination, CSU Fresno College of Science and Mathematics, academic year 2015-2016
- Outstanding Advisor Award, CSU Fresno Campus Advisors Network, academic year 2013-2014
- Outstanding Advisor nomination, CSU Fresno Campus Advisors Network, academic year 2011-2012
- American Geophysical Union, Geomagnetism and Paleomagnetism Section Outstanding Student Paper Award, December, 2000
- GAANN Fellowship, University of California Santa Cruz, 1998, 1999, 2000, 2001
- Aaron & Elizabeth Waters Award, 1998, for best Earth Sciences Ph.D. dissertation proposal, University of California Santa Cruz
- Regents Fellowship, University of California Santa Cruz, 1995
- California Institute of Technology, Don Shepard Award, 1990 for best undergraduate earth and planetary sciences research



- California Institute of Technology, Summer Undergraduate Research Fellowships, 1988,1989

### **Successful External Funding**

- Principle Investigator, American Chemical Society Petroleum Research Fund grant – “Magnetostratigraphy of the Lodo Formation and Kinematics of the Vallecitos Syncline, California” (9/1/2013-8/31/2017 - \$65,000)
- Principle Investigator, U.S. Navy Geothermal Program Office contract – “An Expanded Kinematic and Geochronologic Study of the White Hills Anticline and White Hills Lake Beds” (7/04-9/05 - \$84,468)
- UC IGPP grant for collaboration at Lawrence Livermore -“Dating the early Missoula floods using cosmogenic radionuclide burial methods and innovative paleo-exposure dating” (2003-2004 - \$39,955)
- Co-Principle Investigator, U.S. Navy Geothermal Program Office contract – “Pliocene to Recent Kinematics of the Wild Horse Mesa and Coso Wash: An Integrated Study Using Micropolar Theory and Paleomagnetic Determinations to Examine Spatial and Temporal Variations in Strain” (9/01-6/03 - \$44,471)
- Principle Investigator, Battelle Memorial Institute/Pacific Northwest National Laboratory contracts – various magnetostratigraphy projects (4/01-9/02, 10/02-9/03, 2-8/05 – totaling \$25,725)