

CRAIG A. STEWART, P.G. 9786, C.E.G 2779

Currently a Supervising Engineering Geologist at COTTON, SHIRES AND ASSOCIATES, INC. (CSA)

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Representative Experience

Mr. Stewart performs engineering geologic and geotechnical peer reviews for approximately 10 Bay Area municipalities including, but not limited to: Berkeley, Saratoga, Los Gatos, Los Altos Hills and Morgan Hill. He also performs forensic landslide and distress investigations, as well as geologic hazard investigations for utility alignments and roadway repairs. Investigations Mr. Stewart has been involved with typically require the excavation and analysis of small or large diameter borings, or hand dug shaft equivalents, paleoseismic trenches, as well as the installation of monitoring equipment including survey monuments or inclinometers.

Mr. Stewart has assisted clients as a 'Person Most Qualified,' providing deposition in regards to landslide hazards. He has also performed technical reviews of State hazard mapping, complex geologic peer review including proposed multi-use development on former landfill sites, and review of waste transfer station projects in seismic hazard zones. Mr. Stewart has assisted clients with reviews of environmental impact reports and CEQA evaluations. In addition, Mr. Stewart has made technical presentations for several local City Councils and Planning Commissions, and has coordinated with Town Staff to codify updated seismic hazard policy.

Mr. Stewart co-manages CSA's summer GIS internship program where we partner with the NSF funded UCSC GEOPATHS program. Our goal is to provide students practical experience, professional references, and work products that can be presented at conferences and included within their portfolio as they leave undergrad. The work products include Town/City scale LiDAR mapping with a goal of providing open access to local Consultants when completed.

Mr. Stewart has taught and assisted a variety of courses during his academic career including teaching introduction to physical geology lab, a capstone earth science lab course for elementary education majors, and assisting senior level geologic mapping (i.e., summer field), as well as performing select graduate course lectures on micro-tectonics. He also assisted in the instruction of environmental and physical geology labs. He also performed structural geologic field and laboratory research that successfully gained funding from a National Science Foundation Grant and was published in the Geological Society of America Bulletin. His graduate research was presented at the Southern California Earthquake Center and published in the Journal of Geophysical Research.

Mr. Stewart's research and professional projects have included the use of ArcGIS and AutoCAD, as well as advanced coursework in Matlab coding software.

Professional History

Staff to Supervising Engineering Geologist, Cotton, Shires and Associates, Inc., July 2017 to present

Education

MS, Geology, California State University, Northridge, 2017

Awards: 2017 Outstanding Graduate Student, Hanna Field Research Award

BS, Geology, Appalachian State University, 2015

Awards: 2015 Distinguished Senior, Loren A. Raymond Field Research Scholarship

Select Publications

DeWitt-Hernandez, A., Harmon, K., and **Stewart, C.**, (2021), Using Publicly Available LiDAR Data-Sets to Develop New Topographic Map Resources. Poster at the American Geophysical Union Annual Meeting

Stewart, C., and Miranda, E., (2017), The Rheological Evolution of Brittle-Ductile Transition Rocks During the Earthquake Cycle: Evidence for a Ductile Precursor to Pseudotachylyte in an Extensional Fault System, South Mountains, Arizona. Journal of Geophysical Research: Solid Earth

Casale, G., Levine, J., Craig, T., **Stewart, C.**, (2017), Timing and Deformation Conditions of the Tallulah Falls Dome, NE Georgia: Implication for the Alleghenian Orogeny. Geological Society of America Bulletin