

# CURRICULUM VITAE

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**Geomorphologist**

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## EDUCATION

2001 **M.S.** Geomorphology, Lehigh University, Bethlehem, PA.  
Thesis title: The hydraulic geometry of ephemeral streams: north flank of the San Bernardino Mountains, southern California.

1999 **B.S.** Geosciences, Trinity University, San Antonio, TX.  
Honors Thesis title: Metamorphic Petrology of Pelitic Sediments of the Elkhorn Mountains, Northeastern Oregon.

## PROFESSIONAL EMPLOYMENT

2001 - Present Environmental Analyst - San Francisco Estuary Institute, Oakland, California, USA.

2001 Graduate Assistant – Lehigh Earth Observatory, Lehigh University, Bethlehem, PA.

2000 - 2001 Teaching Assistant – Process Sedimentology, Stratigraphy, and Surficial Processes; Environmental Geology. Lehigh University, Bethlehem, PA.

## AFFILIATIONS

American Geophysical Union (AGU)

## CLASSES/WORKSHOPS

August 2003: Aquatic Ecological Assessment Workshop, taught by Jim Harrington (California Department of Fish and Game)

May 2003: Measurement, Monitoring and Management of Large Woody Debris in North Coast Streams (University of California Cooperative Extension)

## PUBLICATIONS

### TECHNICAL AND CONSULTING REPORTS

**Pearce, S.,** McKee, L., and Shonkoff, S., 2005. Pinole Creek Watershed Sediment Source Assessment. A technical report of the Regional Watershed Program, San Francisco Estuary Institute (SFEI), Oakland, Ca. SFEI Contribution 316.

**Pearce, S.,** and Collins, J., 2004. Analysis of Reference Tidal Channel Plan Form for the Montezuma Wetlands Restoration Project. SFEI Contribution 77. San Francisco Estuary Institute, Oakland, Ca.

Brady, R.H. III, **Pearce, S.,** McKee, L., Overton, S., Striplen, C., 2004. Fluvial geomorphology, hydrology, and riparian habitat of La Honda Creek along the Highway 84 transportation corridor, San Mateo County, California. A technical report of the Regional Watershed Program, San Francisco Estuary Institute (SFEI), Oakland, California. SFEI Contribution 78.

**Pearce, S.A.,** McKee, L.J., and Shonkoff, S.B., 2004. San Pedro Creek Watershed Sediment Source Analysis, Volume III: Tributary sediment source assessment. A Technical Report of the Regional Watershed Program: SFEI Contribution 87. San Francisco Estuary Institute, Oakland, Ca. 70 pp.

McKee, L., Leatherbarrow, J., **Pearce, S.,** and Davis, J., 2003. A review of urban runoff processes in the Bay Area: Existing knowledge, conceptual models, and monitoring recommendations. A report prepared for the Sources, Pathways and Loading Workgroup of the Regional Monitoring Program for Trace Substances. SFEI Contribution 66. San Francisco Estuary Institute, Oakland, Ca.

**Pearce, S.,** O'Connor, M., McKee, L., and Jones, B., 2003. Channel geomorphology assessment: A component of the watershed management plan for the Carneros Creek watershed, Napa County, California. A technical report of the Regional Watershed Program. SFEI Contribution 67. San Francisco Estuary Institute, Oakland Ca.

**Pearce, S.,** O'Connor, M., McKee, L., and Jones, B., 2003. Channel geomorphology assessment: A component of the watershed management plan for the Sulphur Creek watershed, Napa County, California. A technical report of the Regional Watershed Program. SFEI Contribution 68. San Francisco Estuary Institute, Oakland Ca.

**Pearce, S.,** McKee, L., Grossinger, R., and O'Connor, M., 2002. Geomorphic processes in Soda Creek, Napa River Watershed: Recommendation for maintenance of beneficial uses. Report prepared for the State Water Resources Control Board. A technical report of the Regional Watershed Program. SFEI Contribution 63. San Francisco Estuary Institute, Oakland Ca. October 2002.

## PAPERS AND ABSTRACTS

**Pearce, S.A.**, Pazzaglia, F.J., Eppes, M.C., (2004). Ephemeral channel response to a rising fold: *Geological Society of America Bulletin*, v. 116, no. 9-10, p. 1223-1239.  
doi:10.1130/B25386.1

**Pearce, S.A.**, and Grossinger, R.M., 2004. Relative effects of fluvial processes and historical land use on channel morphology in three sub-basins, Napa River basin, California, USA. *Sediment Transfer through the Fluvial System*. IAHS Publication 288 (eds. Golosov, V., Belyaev, V., and Walling, D.E.).

**Newland, S.**, Smith, D., Crowley, P., 1999, Metamorphic Petrology of Pelitic Sediments of the Elkhorn Mountains, Northeastern Oregon: *Geological Society of America, Abstracts with Programs*, 31. no.1 (199902): 31

**Newland, S.**, 1999, Metamorphic Petrology of Pelitic Sediments of the Elkhorn Mountains, Northeastern Oregon: *12th Keck Research Symposium in Geology Proceedings*, Northfield, MN, Library of Congress #98-74326, 299-302.

## ORAL PRESENTATIONS

**Pearce, S.** Pinole Creek Watershed Sediment Source Assessment. Contra Costa County Watershed Forum, Concord, Ca. January 12, 2005.

**Pearce, S.** Influence of landslides on water quality and aquatic habitat in selected creeks in the Bay-Delta watershed. Calfed Science Conference, Sacramento Convention Center, October 4-6, 2004.

**Pearce, S.**, and Grossinger, R.M. Relative effects of fluvial processes and historical land use on channel morphology in three sub-basins, Napa River basin, California, USA. International Commission on Continental Erosion (ICCE) of the International Association of Hydrological Sciences (IAHS). Sediment transfer through the fluvial system. Moscow State University, Moscow, Russia. August 2-6, 2004.

**Pearce, S.** A fluvial geomorphic methodology to assist local agencies and stakeholders in managing Bay Area streams for a diverse set of management issues. San Francisco Bay Regional Water Quality Control Board training meeting. March 25, 2004.

**Pearce, S.**, O'Connor, M., McKee, L., and Jones, B., 2003. Geomorphic Processes and Salmonid Habitat in Sulphur and Carneros Creeks, Napa River Watershed, Napa County California. Calfed Science Conference, Sacramento Convention Center, January 14-16, 2003.

## POSTERS

**Pearce, S.**, Grossinger, R.M., O'Connor, M., and McKee, L.J., 2003. Contrasting historical geomorphic processes and historic change through time: supporting watershed management in tributaries of the Napa River watershed. State of the Estuary Conference, Henry J. Kaiser Convention Center, Oakland, Ca. October 21-23, 2003.

## **AWARDS**

1998 NSCAA Women's Soccer All-American, first team, Trinity University, San Antonio, TX.

1999 NSCAA/Umbro Collegiate All-Star, Women's Soccer, Trinity University, San Antonio, TX.