

ELANA L. LEITHOLD

Professional Preparation

University of Wisconsin-Madison, Geology and Geophysics, B.S., 1980

University of Washington, Geological Sciences, M.S., 1984

University of Washington, Geological Sciences, Ph.D. 1987

Appointments

2007-present Professor, Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University

1993-2007 Associate Professor, Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University

1987-1993 Assistant Professor, Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University

Five Most Relevant Publications

Blair, N.E., Leithold, E.L., Brackley, H., Trustrum, N., Page, M., and Childress, L.B., in review, Terrestrial Sources and Export of Particulate Organic Carbon in the Waipaoa Sedimentary System: Problems, Progress and Processes: submitted to *Marine Geology*

Leithold, E.L., Blair, N.E., and Perkey, D.W., 2006, Geomorphological controls on the age of particulate organic carbon in small mountainous and upland rivers: *Global Biogeochemical Cycles*, v.20, GB3022, doi: 10.1029/2005GB002677

Leithold, E.L., Perkey, D.W., Blair, N.E., and Creamer, T.N., 2005, Sedimentation and carbon burial on the northern California continental shelf: the signatures of land-use change: *Continental Shelf Research*, v.25, p.349-371.

Blair, N.E., Leithold, E.L., and Aller, R.A., 2004, From bedrock to burial: the evolution of particulate organic carbon across coupled watershed-continental margin systems: *Marine Chemistry*, v.92, 141-156.

Blair, N.E., Leithold, E.L., Ford, S.T., Peeler, K.A., Holmes, J.C., and Perkey, D.W., 2003, The persistence of memory: The fate of ancient sedimentary organic carbon in a modern sedimentary system: *Geochimica et Cosmochimica Acta*, v.67, p.63-73.

Five Additional Publications

Leithold, E.L., and Blair, N.E., 2001, Watershed control on the carbon loading of marine sedimentary particles: *Geochimica et Cosmochimica Acta*, v.65, 2231-2240.

Leithold, E.L., and Hope, R.S., 1999, Deposition and modification of a flood layer on the northern California shelf: lessons from and about the fate of terrestrial particulate organic carbon: *Marine Geology*, v.154, p.183-195.

Leithold, E.L., 1994, Stratigraphical architecture at the muddy margin of the Cretaceous Western Interior Seaway, southern Utah: *Sedimentology*, v. 41, p.521-542.

Leithold, E.L., 1993, Preservation of laminated shale in ancient clinofolds: comparison to modern subaqueous deltas: *Geology*, v. 21, p.359-362.

Leithold, E.L., 1989, Depositional processes on an ancient and modern muddy shelf, northern California: *Sedimentology*, v.36, p.179-203.

Synergistic Activities

NSF panelist Integrated Carbon Cycle Research, CBED, and Marine Geology programs, 2004-2008
Member ACS-PRF Administrative Board 1998-2003, Substitute 2005
Participant in Margins Source to Sink Workshops 2000, 2003, 2004, 2006
Participant in RIOMAR Workshops 2001, 2004
NCSU teaching responsibilities: Historical Geology, Marine Sediment Transport, Sedimentology and Stratigraphy, Sedimentary Proxies
Panelist and research mentor for NCSU WISE (Women in Science and Engineering)
Reviewer for Continental Shelf Research, Deep Sea Research, Earth and Planetary Science Letters, Environmental Sciences and Technology Geophysical Research Letters, *Geology*, *Journal of Sedimentary Research*, *Sedimentology*, *Marine Chemistry*, *Marine Geology*

Collaborators in past 48 months:

R.C. Aller (Stony Brook Univ.)
N.E. Blair (NCSU)
S. Kuehl (VIMS)
C. Alexander (Skidaway Inst. Oceanography)
H. Brackley, N. Trustrum, M. Page (Geological and Nuclear Sciences, New Zealand)
A. Orpin (NIWA, New Zealand)

Graduate Advisors: Joanne Bourgeois, J.D. Smith, R.W. Sternberg

Graduate Students: Parvinder S. Sethi, Donna A. Lynch, Wendy Nix-Morris, Rebecca S. Hope, Todd N. Creamer, Jennifer Holmes, David Perkey, William Straight, Ansley Wren, Kristen Lloyd, Catherine Thompson, Laurel Childress, Ben Brulet