

The following application was submitted to the MARGINS Office:

Name:

Neal Blair

Category: Professor

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Statement of interest:

Lonnie Leithold and I have a continuing interest in the evolution of organic sedimentary materials as they travel from terrestrial source to burial on the continental margin as indicated by our most recent publications and proposal submittals. The S2S program is a vehicle to study the organic geochemistry of riverine/coastal sediments in a high sediment yield system in collaboration with those studying the physical processes. Our current NSF project involves the Waipaoa and Waiapu catchments thus potential synergies are evident.

Short resume:

NEAL E. BLAIR

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Professional Preparation

1975 B.S. (Chemistry) University of Maryland
1980 Ph.D. (Organic Chemistry) Stanford University

1980-82 NRC Postdoctoral Fellow, NASA Ames Research Center
1982-84 Research Associate, NASA Ames Research Center

Appointments

1998-present Professor, Department of Marine, Earth and Atmospheric Sciences,
North Carolina State University
1991-98 Associate Professor, Department of Marine, Earth and Atmospheric
Sciences, North Carolina State University
1985-91 Assistant Professor, Department of Marine, Earth and Atmospheric
Sciences, North Carolina State University
1982-84 Lecturer, Department of Chemistry, Stanford University

Relevant Publications

Aller R.C., N.E. Blair, Q. Xia, and P.D. Rude. 1996. Remineralization Rates, Recycling, and Storage of Carbon in Amazon Shelf sediments. *Cont. Shelf Res.* 16, 753-786.

Blair N., L. Levin, D. DeMaster, G. Plaia, C. Martin, W. Fornes, C. Thomas and R. Pope. 2001. The biogeochemistry of carbon in continental slope sediments: the North Carolina margin. In *Organism-Sediment Interactions* (J.Y. Aller, S.A. Woodin and R.C. Aller, eds), Univ. S. Carolina Press, 243-262.

Leithold E.L. and N.E. Blair. 2001. Watershed control on the carbon loading of marine sedimentary particles. *Geochim. Cosmochim. Acta* 65, 2231-2240.

Thomas C.J. and N.E. Blair. 2002. Transport and digestive alteration of uniformly ¹³C-labeled diatoms in mudflat sediments. *J. Mar. Res.* 60, in press.

Blair N., E. Leithold, S. Ford, K. Peeler, J. Holmes and D. Perkey. 2003. The Persistence of Memory: The Fate of Ancient Sedimentary Organic Carbon in a Modern Sedimentary System. *Geochim. Cosmochim. Acta.* 67, 63-73.

Other Publications

Blair N.E. and W.D. Carter, Jr. 1992. The carbon isotope biogeochemistry of acetate from a methanogenic marine sediment. *Geochim. Cosmochim. Acta* 56, 1247-1258.

Blair N.E. and R.C. Aller. 1995. Anaerobic methane oxidation on the Amazon shelf. *Geochim. Cosmochim. Acta* 59, 3707-3715.

Levin L., N. Blair, D. DeMaster, G. Plaia, W. Fornes, C. Martin and C. Thomas. 1997. Rapid subduction of organic matter by maldanid polychaetes on the North Carolina slope. J. Mar. Res. 55, 1-17.

Blair N. 1998. The d13C of biogenic methane in marine sediments: The influence of Corg deposition rate. Chem. Geol. Isotope Geoscience 152, 139-150.

Levin L.A., N.E. Blair, C.M. Martin, D.J. DeMaster, G. Plaia, C.J. Thomas. 1999. Macrofaunal processing of phytodetritus at two sites on the Carolina margin: in situ experiments using C¹³ labeled diatoms Marine Ecology Progress Series 182, 37-54.

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ABSTRACT

Title:

See that submitted by E. Leithold

Authors:

Abstract:

Wish to include graphics:

Server protocol: HTTP/1.0

Remote host: nb3135.meas.ncsu.edu

Remote IP address: 152.1.31.17