

## NEAL EDWARD BLAIR

Department of Civil and Environmental Engineering,  
Department of Earth and Planetary Sciences  
2145 Sheridan Rd. Technological Institute A228  
Northwestern University, Evanston, IL 60208

ph: (847) 491-8790  
fax: (847) 491-4011  
e-mail: n-blair@northwestern.edu

### Publications

Terrestrial Sources and Export of Particulate Organic Carbon in the Waipaoa Sedimentary System: Problems, Progress and Processes. *Mar. Geol.* (2010) 270, 108-118, doi:10.1016/j.margeo.2009.10.016 (N.E. Blair, E.L. Leithold, H. Brackley, N. Trustrum, M. Page, and L. Childress).

Dispersal and transformation of organic carbon across an episodic, high sediment discharge continental margin, Waipaoa sedimentary system, New Zealand. *Mar. Geol.* (2010) 270, 202-212, doi:10.1016/j.margeo.2009.11.001 ( H.L. Brackley, L. Carter, N.A. Trustrum, N.E. Blair, E.L. Leithold, E.A. Canuel, J. Johnston and K.R. Tate).

Enhanced supply of fossil organic carbon to the Okinawa trough since the last deglaciation. *Paleoceanography* (2008) 23, PA2207, doi:10.1029/2007PA001440 (S.J. Kao, M.H. Dai, K.Y. Wei, N.E. Blair, S.C. Hsu and W.B. Lyons).

Early diagenetic cycling, incineration, and burial of sedimentary organic C in the central Gulf of Papua (Papua New Guinea). *JGR-Earth Surf.* (2008) 113, F01S09, doi: 10.1029/2006JF000689 (R.C. Aller, N.E. Blair, and G. J. Brunskill).

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## Abstracts and Conference/Symposia Presentations

Resolving organic carbon of differing diagenetic/catagenetic states in riverine and marine sediments (2010) *Goldschmidt Conference, Knoxville* (N.E. Blair, K. Fournillier, E.L. Leithold, L.B. Childress).

Carbon and nitrogen stable isotopes as proxies for Late Pleistocene to Holocene environmental change in the Waipaoa Sedimentary System, New Zealand (2010) *Goldschmidt Conference, Knoxville* (L.B. Childress, E.L. Leithold, N.E. Blair, B. R. Brulet).

Long-term controls on the composition of particulate carbon buried offshore from the Waipaoa River, North Island, New Zealand (2009) *AGU national meeting, San Francisco* (E. L. Leithold, N. E. Blair, L. B. Childress, B. R. Brulet).

Raman spectroscopy of carbonaceous material in PETM sediments from the Bighorn Basin, Wyoming (2009) *AGU national meeting, San Francisco* (A. A. Baczynski, F. A. McInerney, S. D. Jacobsen, N. E. Blair, S.-M. Thomas, M. J. Kraus)

Identifying sediment sources and delivery mechanisms using background level polycyclic aromatic hydrocarbons in the Waiapu River watershed, NZ (2009) *AGU national meeting, San Francisco* (C.E. Thompson, E.G. Nichols, G. Johnson, N.E. Blair, E.L. Leithold, A.S. Palmer, W.T. Baisden).

Deciphering the biogeochemical signals of Holocene environmental change preserved in sediment fractions on the Waipaoa margin, New Zealand. (2009) *Margins S2S Workshop, Gisborne, New Zealand* (E. Leithold, L. Childress, B. Brulet, and N. Blair).

The next generation methods of tracking organic carbon from source to sink: Pyrolysis-GCMS and—FTIR. (2009) *Margins S2S Workshop, Gisborne, New Zealand* (K. Fournillier, N. Blair and E. Leithold).

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Carbon remineralization in the Amazon - Guianas mobile mudbelt: a sedimentary incinerator (2004) *Friday Harbor Symposium for Richard Sternberg* (R.C. Aller and N.E. Blair).

The organic memory of sedimentary systems as an indicator of the past lives of particles (2004) *National Geological Society of America meeting* (E. Leithold and N. Blair).

Impact of land-use change on carbon burial on the Northern California shelf (2003) *National Geological Society of America meeting* (E. Leithold, D.W. Perkey, N.E. Blair).

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From bedrock to burial: the evolution of particulate organic carbon across coupled watershed-continental margin systems (2003) *Symposium on New Approaches in Marine Organic Biogeochemistry, Friday Harbor* (N.E. Blair, E. Leithold, R.C. Aller).

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A watershed control on the carbon loading of marine sedimentary particles? (2001) *ASLO Aquatic Sciences meeting, Albuquerque, NM* (E.L. Leithold and N.E. Blair).

Deposition of bomb C-14 in continental slope sediments: use of radiocarbon in understanding benthic food web dynamics (2001) *ASLO Aquatic Sciences meeting, Albuquerque, NM* (D.J. DeMaster, N.E. Blair, C.R. Smith, W.L. Fornes, C.J. Thomas, and G. Plaia).

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A comparison of organic matter transport and decay in sediments from coastal and slope sediments using <sup>13</sup>C labeled diatoms (1998) *Ocean Sciences Meeting, San Diego, CA* (C.J. Thomas and N.E. Blair).

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The biogeochemistry of carbon in continental slope sediments: the North Carolina margin (1998) *Organism-Sediment Interactions Symposium, Belle Baruch Institute, S.C.* (N. Blair, L. Levin, D. DeMaster, G. Plaia, C. Martin, W. Fornes, C. Thomas and R. Pope).

Macrofaunal processing of phytodetritus at two sites on the NC slope: An *in situ*, time series approach. (1997) *Ocean Sciences Meeting, Santa Fe N.M.* (L. Levin, C. Martin, N. Blair, D. DeMaster, G. Plaia, & C. Thomas).

Who eats how, when and where on the continental margin: C-13 tracer studies of phytodetritus fates (1997) *25th Annual Benthic Ecology Meeting, Portland, ME* (L. Levin, N. Blair, D. DeMaster, G. Plaia, C. Martin, C. Thomas and W. Fornes).

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$\text{C}_{\text{org}}$  Remineralization in Amazon Shelf Sediments (1994) *ASLO Ocean Sciences Meeting, San Diego* (R.C. Aller, N.E. Blair, Q. Xia, P.D. Rude).

Respiration Rates and Dissolved Organic Fluxes off North Carolina (1994) *ASLO Ocean Sciences Meeting, San Diego* (C.S. Martens, M.J. Alperin, D.B. Albert, N.E. Blair).

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The Carbon Isotope Biogeochemistry of Freshwater Methanogenic Sediments (1992) *203<sup>rd</sup> National Meeting of the American Chemical Society, San Francisco* (N.E. Blair, C.A. Kelley and C.S. Martens).

Methane and Sediment Dynamics on the Amazon Shelf (1992) *Fall AGU National Meeting, San Francisco* (N.E. Blair, J. Gunn and R.C. Aller).

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A Carbon Isotope Budget for an Anoxic Marine Sediment (1991) *201st National A.C.S. Meeting, Atlanta* (S.E. Boehme and N.E. Blair).

The Carbon Isotope Biogeochemistry of Methane Production in Anoxic Sediments (1991) *10th International Symposium on Environmental Biogeochemistry, San Francisco* (N.E. Blair, S.E.

Boehme and W.D. Carter, Jr.)

Biogeochemical Controls on the Carbon Isotopic Composition of Methane Produced in Anoxic Marine Sediment (1991) *10th International Symposium on Environmental Biogeochemistry* (M.J. Alperin, N.E. Blair, D.B. Albert, and T.M. Hoehler).

The Effects of Biological Mounds on Biogeochemical Processes in Southeast U.S. Continental Slope Deposits (1990) *Benthic Ecology Meeting, Mobile* (R.H. Pope, T.R. Schaff, S.E. Boehme, L.A. Levin, N.E. Blair, and D.J. DeMaster).

Relationship between Infaunal Community Structure and Organic Carbon on the Carolina Continental Slope (1990) *Benthic Ecology Meeting, Mobile* (T. Schaff, L. Levin, N. Blair, S. Boehme, D. DeMaster and R. Pope).

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Spatial Variability in Biogeochemical Processes on the Southeast U.S. Continental Slope: Large Scale Heterogeneity (1989) *Spring AGU Meeting, Baltimore* (N.E. Blair, L.A. Levin, D.J. DeMaster, S.E. Boehme, S.L. Harden and T.R. Schaff).

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Biogeochemical Processes Dominating Upper Slope Sediments along a 36° 20' N Transect off North Carolina, USA. (1989) *Spring AGU Meeting, Baltimore* (C.S. Martens, J.P. Chanton, J.V. Klump, L.K. Benninger, P.M. Crill, R.I. Haddad, D.B. Albert, C.A. Kelley, M.J. Alperin, J.D. Willey, N.E. Blair).

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Seasonal Variation in  $\Sigma\text{CO}_2$   $\delta^{13}\text{C}$  Values from an Anoxic Coastal Sediment (1987) *American Chemical Society National Meeting, Denver* (N. E. Blair, S. E. Boehme and J. P. Chanton).

The Biogeochemical Processes Controlling the Carbon Isotopic Composition of Methane from Coastal Environment (1987) *American Chemical Society National Meeting, Denver* (N. Blair, J. Gower and S. Boehme).

The Carbon Isotope Biogeochemistry of Methane from Coastal Sediments (1987) *Geological Society of America Fall Meeting, Phoenix* (N. E. Blair, S. E. Boehme, W. D. Carter, J.G. Gower, W. J. Showers, J. P. Chanton, C. S. Martens).

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Carbon Isotopic Fractionation in Microbial Intermediary Metabolism (1983) *6th International Symposium on Environmental Biogeochemistry* (N. Blair and D. Des Marais).

Carbon Isotopic Composition of Individual, Low Molecular Weight Hydrocarbons and Monocarboxylic Acids from Murchison Meteorite (1983) *14th Lunar and Planetary Science Conference* (G. Yuen, N. Blair, D. Des Marais and S.Chang).