

The following application was submitted to the MARGINS Office:

Name:

Jesse McNinch

Category: Professor

Address:

Physical Sciences
Virginia Institute of Marine Science
PO Box 1346, Rt. 1208 Greate Rd.

Gloucester Point, Virginia 23062
US

E-mail: mcninch@vims.edu

Phone: 804.684.7191

Fax: 804.684.7250

Statement of interest:

Statement of Interest: Waipaoa Workshop

The sedimentological signature and preservation potential of short-term changes in terrestrial signals (e.g. flooding, earthquakes, and land-use) on a shallow shelf remains largely unknown. The mid-shelf depocenter of the Waipaoa sediment dispersal system is an ideal setting to investigate preservation of terrestrial sedimentary signals and to develop chronostratigraphic models that have far-reaching applicability in deciphering short-term forcing fluctuations. We believe significant advances can be made at the Waipaoa because of the wealth of terrestrial data already available, its small and relatively closed system, and its chronological constraints. We hope to devise hypotheses and testing methodology that examine elemental questions about how terrestrial events may appear and be preserved in a marine depositional basin, and how this may be modeled in modular form and ultimately exported to more generic and large-scale basin models. As such, the Waipaoa workshop offers an excellent opportunity to refine

proposed field plans to dovetail with the ongoing work of our New Zealand colleagues and to speak directly with possible collaborators in the modeling community.

Short resume:
Biographical Sketch

JESSE E. MCNINCH

Education:

Ph.D.	1997	University of North Carolina at Chapel Hill, Marine Sciences
M.S.	1989	University of North Carolina at Chapel Hill, Marine Sciences
B.S.	1987	University of Southwestern Louisiana, Geology

Employment:

2001-Present	Assistant Professor, School of Marine Science, Virginia Institute of Marine Science, College of William and Mary
1998-2000	Post-doctoral Associate, National Research Council, Army Research Office and US Army Corps of Engineers
1997-1998	Post-doctoral Associate, Institute of Marine Sciences, University of North Carolina at Chapel Hill

Relevant/Recent Publications:

McNinch, J.E., J.T. Wells, and T.G. Drake, 2001. The fate of artifacts in an energetic, shallow-water environment: scour and burial of Queen Anne's Revenge. *Southeastern Geology*, 40 (1), 19-27.

McNinch, J.E. and T.G. Drake, 2001. Influences of underlying geology on nearshore and shoreline processes. GSA Abstracts with Programs SE Section Meeting, Raleigh, NC.

McNinch, J.E. and R.A. Luettich, Jr., 2000. Physical processes around a cusped foreland headland: implications to the evolution and long-term maintenance of a cape-associated shoal. *Continental Shelf Research*, 20 (17): 2367-2389.

McNinch, J.E. and J.T. Wells, 1999. Sedimentary processes and depositional history of a cape-associated shoal: Cape Lookout, NC. *Marine Geology*, 158 (1-4): 233-252.

McNinch, J.E., J.T. Wells, and S.W. Snyder, 1999. The long-term contribution of Pre-Holocene sands to transgressing barrier islands. In: Kraus, N.C. and W.G. McDougal (eds.), *Coastal Sediments '99*, 1: 786-801.

McNinch, J.E. and T.G. Drake, 1999. The influence of underlying geology: Duck, NC. EOS, Transactions, American Geophysical Union, Fall Meeting, San Francisco, CA.

Recent Collaborators: S. Kuehl (VIMS), J. Milliman (VIMS), T. Drake (NCSU), J. Wells (UNC-CH), W. Birkemeier (USACE), R. Luettich (UNC-CH), S. Snyder (NCSU),

Graduate Advisor: J. Wells (UNC-CH)

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ABSTRACT

Title:

Authors:

Abstract:

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