

The following application was submitted to the MARGINS Office:

Name:

Clark Alexander

Category: Professor

Address:

Skidaway Institute of Oceanography
10 Ocean Science Circle

Savannah, GA 31411
USA

E-mail: clark@skio.peachnet.edu

Phone: 912-598-2329

Fax: 912-598-2310

Statement of interest:

I have a strong interest in muddy depositional systems, having worked on such systems in China, South America, Korea, Russia and on the west and east coasts of the US. I have participated in the two MARGINS planning efforts and have already begun to develop relationships with some NZ researchers. This workshop will give me an opportunity to expand my collaborations and to see the proposed study areas.

Short resume:

CLARK R. ALEXANDER, JR.

Education:

1990	Ph.D.	North Carolina State University, Marine Sedimentology
1985	M.S.	North Carolina State University, Marine Geology
1983	B.S.	Humboldt State University, Oceanography (Cum Laude)
1983	B.A.	Humboldt State University, Geology

Work Experience:

2002-P Professor, Skidaway Institute of Oceanography
1997-02 Associate Professor, Skidaway Institute of Oceanography
1991-97 Assistant Professor, Skidaway Institute of Oceanography
1989-91 Postdoctoral Scientist, Skidaway Institute of Oceanography
1987-89 Sedimentology Laboratory Manager, SUNY Stony Brook
1983-87 Graduate Research Assistant, North Carolina State University

Pertinent Professional Service and Experience:

1991-93 Sediment Processes Working Group Chair, Coastal Ocean Boundaries Interactions and Assessments (COBIA) Initiative, GA/SC Sea Grant.
1993 Steering Committee Member, First Southeast Coastal Ocean Research Symposium.
1993-94 Invited Participant, ONR Planning Workshops on Continental-Terrace (Shelf and Slope) Sediment Processes.
1994 Invited Participant, NOAA National Undersea Research Center, Carolina Capes Region Strategic Planning Workshop.
1995 Invited Participant, Ocean Drilling Program Slope Stability Workshop (LDEO, NY).
1995-96 Field Trip Chairman, International Congress on Tidal Sedimentation (Tidalites '96).
1996 Invited Participant, NSF Siliciclastic Sedimentation Workshop (Upper Brandon, VA).
1996 Invited Participant, Southeast U.S. NOAA-Coastal Ocean Program Planning Workshop.
1998-P Coordinator, STRATAFORM Deep-Coring initiative.
1999 Invited participant, NSF MARGINS Sed/Strat programmatic planning workshop.
2000 Invited participant, NSF MARGINS Sed/Strat science implementation workshop.

Field Experience (1983-P):

- Participated in 49 field programs including 7 in foreign countries.
- Chief Scientist on 21 oceanographic cruises on UNOLS and non-U.S. vessels.
- More than 1.5 years of cumulative time spent on UNOLS vessels (Blue Fin, Cape Henlopen, Knorr, Melville, Savannah, Thompson, Washington, Wecoma).
- Experienced with marine coring and drilling equipment, geophysical data acquisition systems and ROVs.

Five Pertinent Peer Reviewed Publications:

Alexander, Jr., C.R., Nittrouer C.A. and D.J. DeMaster. 1986. High-resolution seismic stratigraphy and its sedimentological interpretation on the Amazon continental shelf. *Continental Shelf Research*, 6:337-357.

Alexander, C.R., Nittrouer, C.A. and D.J. DeMaster. 1991. Sediment Accumulation in a Modern Epicontinental Shelf Setting: The Yellow Sea. *Marine Geology*, 98:51-72.

Sommerfield, C.K., Nittrouer, C.A. and C.R. Alexander. 1999. ⁷Be as a Tracer of Flood Sedimentation on the Northern California Continental Margin. Continental Shelf Research, 19:335-361.

Alexander, C. and A. Simoneau. 1999. Spatial Variability in Sedimentary Processes on the Eel River Continental Slope. Marine Geology, 154:243-254.

Alexander, C.R. and C. Venherm. 2003. Modern sedimentary processes in the Santa Monica, California continental margin: sediment accumulation, mixing and budget. Marine Environmental Research (in press) .

Educational Activities:

Supervised 6 students and 8 interns
Taught 9 courses on marine geological topics since 1994.

- - - - - * - - - - -

ABSTRACT

Title:

Deep Sampling with the AHC-800 Drilling System

Authors:

Clark Alexander (1), Jamie Austin (2) and Chris Sommerfield (3).

1. Skidaway Institute of Oceanography, Savannah, GA, USA
2. University of Texas at Austin, Institute of Geophysics, Austin, TX, USA
3. University of Delaware, Lewes, DE, USA

Abstract:

Several instruments have been developed to facilitate sample recovery of long (>20 m) cores from the continental margin. The one system that has been successfully deployed and tested is the Active Heave Compensation (AHC) 800 system operated by DOSECC. The AHC-800 can collect sample in ODP-standard liner to combined water column and subseafloor depth depths of 800 m. This system was field tested in Nov. 2001 and Sept-Oct 2002 from a ship at sea. This talk will present the results of these tests, the strengths and weaknesses of this system and the potential for application of this system to the NZ margin.

Wish to include graphics:

Server protocol: HTTP/1.1

Remote host:

Remote IP address: 168.20.192.246