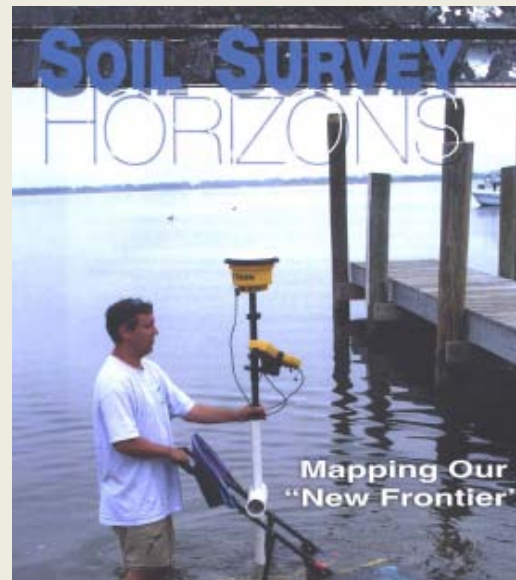


2nd National Workshop on Subaqueous Soils

Jim Turenne

RI State Soil Scientist

<http://nesoil.com/sas> or
www.mapcoast.org



Sponsors and Organizers

Mark Stolt – URI

Martin Rabenhorst – UMD

Patrick Drohan – Penn
State

Maggie Payne – RI NRCS

Jim Turenne – RI NRCS



Helper Bees: Jonathan Bakken, Jill Phillips, Amanda Padula, Rob
Tunstead, Shane McNamara, Mike Bradley

Special thanks to Deb Coty , Pete August, and Judith Swift for use of the Coastal Institute!

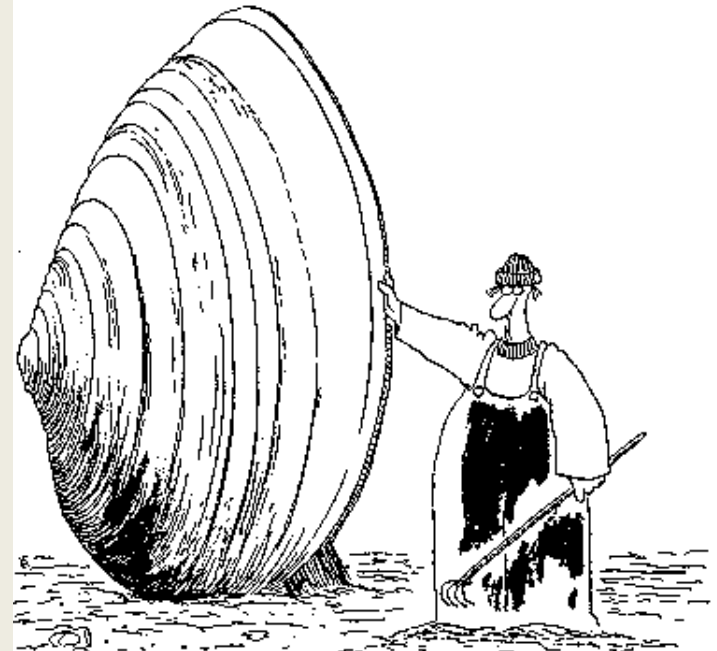
Why are we Here?

Recommendations from NCSS Meeting

1. *Partners in SAS - Strengthen partnerships with other agencies (NOAA) and state DNR's. Identify customers (within federal, state, and local government along with private industry and non-profit organizations) and solicit mapping and interpretive needs from those customers.*
2. *Maintain working group and evolve into/formalize a national committee on SAS.*
3. *Develop SAS informational primer, tech notes, information sheets to explain concepts and create understanding of the purpose, mechanisms, and products.*
4. *Develop Methods Manual to map and characterize SAS properties – into SSM, NSSH, and into separate document*
5. *SAS Workshop – Organize to help standardize techniques/methodology—teach principals applicable to various regions.*



QUAHOG (KWŌ HŌG; KWĀ•HŌG') CLAM.



AVERAGE UPPER NARRAGANSETT BAY
QUAHOG TAKEN BY MR. ROCCO COONEY OF
MILTON AVE., CRANSTON
ON SEPTEMBER 3, 1957.

Logistics – my cell 401-255-6206

- Facilities Information.
- Internet: nesoil.g password: 39351268
- Agenda – meet here every morning by 8 am (7??), van will be at hotel.
- Field sessions – wear field clothes, bring field book, for pedon bring description stuff. Rain or shine, in case of hazard weather boat tours will be cancelled.
- Lunches – menu for West Bay in field guide.
- Optional session Tuesday night to discuss NASIS and Interpretations.
- List of things to do/places to eat – see Jim for suggestions.
- Newport Bridge – is a toll bridge, Jamestown Bridge is free.
- Social event Wednesday night.

Weather - Our Luck



Let's ride the Wave!



Ruggles Ave. Newport, RI

Introduction to Subaqueous Soils: History and Background - Marty Rabenhorst

MARTIN C. RABENHORST

Department of Environmental Science and Technology,
University of Maryland, College Park, MD 20742

Phone: (301)405-1343, FAX: (301)314-9041; mrabenho@umd.edu

a. Professional Preparation

Univ. of MD College Park	Soil Science	B.S.	1975
Univ. of MD College Park	Soil Genesis, Morphology, and Classification	M.S.	1978
Texas A&M Univ.	Pedology	Ph.D.	1983

b. Appointments

2006-present **Professor of Pedology**, Dept. Environmental Sci. & Tech., Univ. of Maryland
1995-2006 **Professor of Pedology**, Dept. of Nat. Resource Sci. & LA, Univ. of Maryland
1989-1995 **Associate Professor**, Dept. of Agronomy, Univ. of Maryland
1983-1989 **Assistant Professor**, Dept. of Agronomy, Univ. of Maryland

c. Research and Teaching

- Since his arrival at UMD in 1983, his research has focused on Pedogenesis of Wetland Soils
- Has worked on subaqueous soils since the late 1990's when he began advising George Demas on his doctoral studies.
- Started teaching the first full credit college level course on Wetland soils in 1991, and teaches other courses in Pedology (including coaching of the Soil Judging Team)
- Has published over 100 refereed articles and book chapters, and 140 abstracts and presentations.

Awards and Service

Teaching Award - 1988 NEBASA

Research Award = 1991 NEBASA

Fellow - 2001 Soil Science Society of America

Chair - Division S-10 (Wetland Soils) of SSSA, 1998

Chair - Soil Geomorphology Committee (S880), SSSA, 1998

Co-Chair - 18th World Congress of Soil Science, Prof. Tours Subcommittee, Philadelphia, PA, 2006.

President - Mid-Atlantic Association of Professional Soil Scientists (MAPSS), 2003-04

Cooperator of the Year Award - National Cooperative Soil Survey, June 2007, Madison, WI.

Director - Division S-10 (Wetland Soils) representative to SSSA Board of Directors (2009-2011).



Overview of the geology of New England and coastal geologic processes – Jon Boothroyd

JON C. BOOTHROYD

Department of Geosciences
University of Rhode Island
Kingston, RI 02881
jon_boothroyd@uri.edu
401-874-2265

Date of birth: August 4, 1938
Place of birth: Littleton, NH
Single
Citizenship: USA

Education

Ph.D.	University of South Carolina-Columbia,	1974, Geology
M.S.	University of Massachusetts-Amherst,	1972, Geology
B.A.	University of New Hampshire-Durham,	1962, Economics

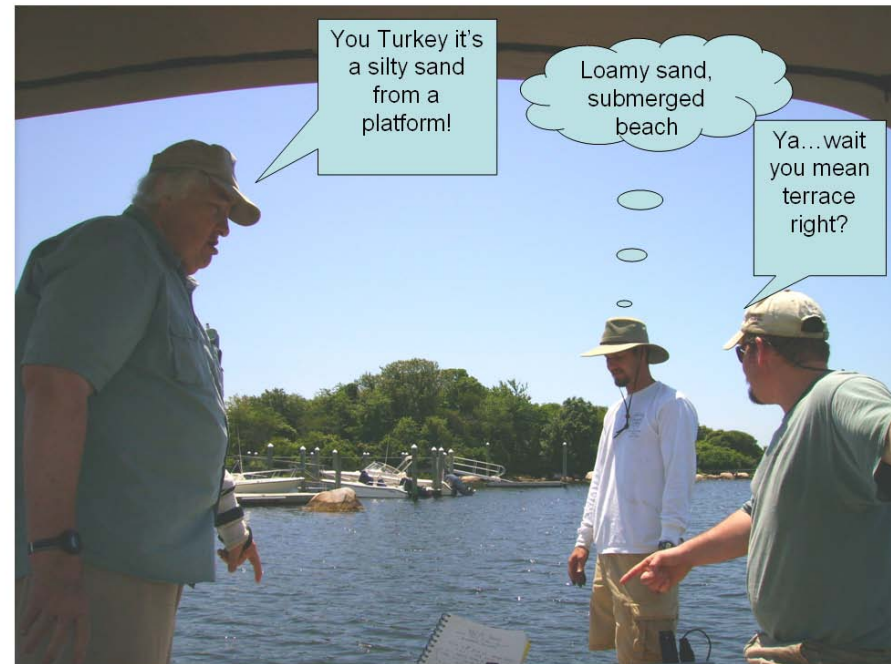
Professional Experience

1998 - Present:	Rhode Island State Geologist
2010 - Present:	Research Professor Emeritus, Quaternary Geology, Dept. Geosciences, Univ. Rhode Island
1986 - 2010:	Professor of Quaternary Geology, Dept. Geosciences, Univ. Rhode Island
1987 - 1991:	Chairperson, Dept. of Geology
1980 - 1986:	Associate Professor,
1975 - 1980:	Assistant Professor, Department of Geology, University of Rhode Island
1974 - 1975:	Assistant Professor, Department of Geology, University of South Carolina
1974, Spring:	Instructor, University of South Florida
1973, Spring:	Instructor, North Carolina State University
1963 - 1965:	Geotechnician, New Hampshire Highway Dept. (now NHDOT), Construction Division, and Materials Research Lab

Research Interests:

I am primarily a field geologist specializing in coastal, braided river, and various glacial environments. I have 45 years of field experience in New England, South Carolina, Alaska, Iceland, Saudi Arabia, Madagascar, Ecuador, Mexico and the Azores. My current research focuses on:

- Coastal geologic hazards and management issues
- Geologic mapping of Quaternary (surficial) deposits
- Benthic geologic habitat of Essential Fish Habitat and aquaculture sites
- Late glacial and post-glacial landscape development
- Long-term (years) beach changes
- Processes and development of barrier and headland shorefaces in glaciated terrain
- Holocene stratigraphy of microtidal lagoons
- Geotechnical aspects of highway construction through, and use of, glacial materials
- Geoarchaeology of New England



Boating safety basics – rules of the water – Captain Bryan Oakley

<p>REGISTRATION NEW AT A GLANCE</p> <p>Dept. of Commerce Office of the Dir. Revenue and Tax Services 150 North State Street Boston, MA 02111 Tel: 617-725-7000 Fax: 617-725-7000 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>	<p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>	<p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>
<p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>	<p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>	<p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p> <p>REGISTRATION Dept. of Commerce, University of Rhode Island, Kingston, RI 100 Water Street Kingston, RI 02881 Tel: 401-846-3333 Fax: 401-846-3333 www.dcr.state.ma.us</p>



United States Coast Guard, Boston, Ma – 2003
 Master of Steam or Motor Vessels of not more than 100 Gross Registered Tons upon inland waters; Operator of Uninspected Passenger Vessels out to 100 nm from safe harbor, License number USA000016284