

THE 1984 FALL MEETING

18-20 OCTOBER 1984 *** NARRAGANSETT, RI

JOINTLY HOSTED BY

THE GRADUATE SCHOOL OF OCEANOGRAPHY, UNIVERSITY OF RHODE ISLAND $$\operatorname{\mathtt{AND}}$$

THE ENVIRONMENTAL RESEARCH LABORATORY, NARRAGANSETT, ENVIRONMENTAL PROTECTION AGENCY

PROGRAM SCHEDULE ** PRE-REGISTRATION ** COMMUNICATION TO MEMBERS

MEETING SITE: Talks and poster sessions will be held at the Graduate School of Oceanography (GSO-URI) or the Environmental Research Laboratory (ERLN-EPA) in Narragansett, RI. Social events and accommodations will be at Durfee's at the Pier, five miles down the coast.

Thursday, October 18

1300 - 17	30	Eutrophication Symposium, ERLN-EPA Conference Room, program enclosed		
1900 - 22	00	NEERS RegistrationCasino Room, Durfee's at the Pier		
1900 - ??	??	Beer Blastsame place (bring your kazoos)		
Friday, October 19				
0800	RegistrationCorless Auditorium, Watkins Building, GSO-URI			
0800	Poster Set-upRm 12, Watkins Building, GSO-URI			
0825	Welcome - Dr. William Brungs, Director, Environmental Research Laboratory, Narragansett. U.S. E.P.A.			
	Session	PAPER SESSION 1 Chair - Walter Berry, University of Rhode Island.		
0830	The Shadow Responses of Estuarine Copepods. Buskey, E.J., E.Swift, and C. Mann. University of Rhode Island			
0850		f Jellyfish Watcher: Evidence That Two Contiguous tions of <u>Cyanea</u> are Genetically Isolated.		

Brewer, R.H., Trinity College

0910	Microbial Iron Reduction in Enrichment Cultures of Estuarine Sediments. Tugel, J.B., M.E. Hines, and G.E. Jones, University of
	New Hampshire.
0930	Experimental Use of Macrocosm Seagrass Cultures. Short, F.T., University of New Hampshire.
0950	Poster Session and Coffee Break - Rm 12, Watkins Building
	PAPER SESSION 2
	Session Chair - Don Gordon, Bedford Institute of Oceanography
1020	Application of Triterpanes and Steranes in Marine Sediments as Indicators of Fossil Fuel Pollution. Requejo, A.G., Battelle New England
1040	Application of Organic Geochemical Techniques to the Study of Contaminated Coastal Sediments. Eganhouse, R.P., University of Massachusetts
1100	Analysis of Trace Organics in Aquatic Environments, Part 1: Di-n-Butyl Phthalate Ester.
	Libby, A.J., Jr., U.S. Coast Guard R&D Center and UConn Marine Sciences Institute
1120	*The Geochemistry of Dissolved Organic Copper and Chromium in Narragansett Bay Interstitial Waters. Douglas, G.S., University of Rhode Island.
1140	Pathways of Pollutant Entry to Narragansett Bay. Hoffman, E.J., J.S. Latimer, G.L. Mills, C.G. Carey and J.G. Quinn, University of Rhode Island
1200	Lunch Break (Buffet served in Rm 12, Watkins Building)
	PAPER SESSION 3
	Session Chair - D. Michael Johns, EPA-Narragansett
1320	A Case Study on the Effects of Contaminated Dredge Spoils on Heart and Ventilatory Rhythms of the American Lobster. Bill, R.G., NOAA, NMFS.
1340	Very Rapid Aquatic Toxicity Testing. Jackim, E. and D. Nacci, EPA Environmental Research Laboratory
1400	*Sublethal Predation Effects on Reproduction and Population Dynamics of <u>Polydora ligni.</u> Zajac, R.N., University of Connecticut.

1420	A Comparative Analysis of Growth in Bay Scallops from Southern Rhode Island. Jones, J.P. and H.M. Rines, University of Rhode Island.
1440	Geologic Control of Molluscan Communities in a Coastal Bay, Western Gulf of Maine. Shipp, R.C. and S.A. Staples, University of Maine and D.B. Packer, Smithsonian Institution.
1500	Break and Poster session - Rm 12, Watkins Building
	$\frac{\text{PAPER SESSION 4}}{\text{Session Chair - Barbara Welsh, University of Connecticut}}$
1530	*Hypsographic Analyses of Narragansett Bay. Chinman, R.A., University of Rhode Island
1550	Barnstable Harbor Wetlands Classification Using Landsat Thermatic Mapper. Richardson, K.A., University of Rhode Island.
1610	Ecological Importance of Fundy Salt Marshes. Gordon, D.C., Jr., P.J. Cranford, and P. Schwinghamer, Bedford Institute of Oceanography.
1630	The Narragansett Bay National Estuarine Sanctuary Greene, R., Rhode Island Department of Environmental Management
	* denotes Ketchum Prize Papers
1650	BUSINESS MEETING
1830	HAPPY HOURCasino Room, Durfee's at the Pier
1930	BANQUETsame place
Saturday, Octo	ber 20
	NARRAGANSETT BAY - A LABORATORY AND A RESOURCE
0830	RegistrationCorless Auditorium, Watkins Building, GSO-URI
0900	Introductions
0915	Flow Patterns in Narragansett Bay. Frank White, University of Rhode Island
0940	Post Glacial Geologic History of Narragansett Bay. Robert McMaster, University of Rhode Island.
1005	Coffee Break

Fish and Fishermen of Narragansett Bay; Past and Present H. Perry Jeffries, University of Rhode Island

An Environmentalist's View of Narragansett Bay.
Trudy Coxe, Save The Bay, Inc.

Summary and Discussion

POSTER PAPERS

Lynne C. Hanson, Center for Ocean Management Studies

- The Probability of Underwater Resuspension of Estuarine Sediment by Rain. Anderson, F.E. and T.C. Shevenell, University of New Hampshire
- National Wildlife Refuge System Master Planning and Land Acquisition. Chase, G.L., U.S. Fish and Wildlife Service
- Evaluation of the Archiannelid $\underline{\text{Dinophilus}}$ $\underline{\text{gyrociliatus}}$ for Use in Short-term Chronic Bioassays.
- Sea Grant Work in Estuaries. U.R.I. Sea Grant
- Hazard Assessment: A Case Study. Field Verification Program--Aquatic Disposal. U.S. EPA, Environmental Research Laboratory,-Narragansett.

REGISTRATION: The NEERS registration desk will be open on Thursday, 1900-2200 hours at Durfee's and on Friday, 0800-1100 hours and on Saturday, 0830-1000 hours at GSO-URI. Pre-registration is \$8.00 (see enclosed form); on-site registration is \$10.00; registration for Saturday only is \$5.00. Do not procrastinate, put that check to NEERS in the mail today. (Berry wants your money!)

KETCHUM PRIZE: A prize of \$100.00 will be awarded to the student who, in the opinion of the prize committee, presents the best paper in terms of scientific content and in clarity and professionalism of presentation (including graphics). To be eligible, the student must be the sole author of the paper and may not have been a previous winner. All Ketchum Prize papers will be presented on Friday. Contributions towards the endowment fund for this prize would be greatly appreciated by NEERS.

SATURDAY MORNING SPECIAL SESSION: How does the past affect the future of our estuaries? What can we learn from the physical oceanography of an estuary? These and other questions will be addressed by the invited speakers and brought up for discussion with the audience during the session on "Narragansett Bay, A Laboratory and a Resoruce."

EUTROPHICATION SYMPOSIUM: On Thursday afternoon (October 18) MERL, the Marine Ecosystem Research Laboratory at URI, will host an afternoon of presentations on nutrient enrichment in coastal waters as seen in both mesocosm and field studies. This will be held at ERLN-EPA.

Eutrophication Symposium

1:00	<pre>Introduction to Symposium P.L. Donaghay - MERL/GSO/URI</pre>
1:10	Nutrients in Narragansett Bay: Background for a Mesocosm Eutrophication Experiment M.E.Q. Pilson - MERL/GSO/URI
1:20	Effects of Eutrophication on System Production and Respiration C.A. Oviatt - MERL/GSO/URI
1:35	Effects of Eutrophication on Planktonic Primary and Secondary Production Processes P.L. Donaghay and B.K. Sullivan - MERL/GSO/URI
2:00	Benthic Response to Nutrient Enrichment J.B. Frithsen, P. Sampou, D.T. Rudnick, J. Maughan and E. Klos MERL/GSO/URI
2:15	Changes in the Fate and Cycling of Carbon in Eutrophic Sytems J.N. Gearing, J. Maughan, P.J. Gearing - MERL/GSO/URI
2:30	Microcosm Nitrogen and Phosphorus Balances: Sediments are not the Answer R.B. Beach, M.E.Q. Pilson, T. Sowers, S.J. Richards and J. Boucher - MERL/GSO/URI
2:45	Break
3:00	Nutrient Enrichment Studies on Chesapeake Bay Subestuary C.F. D'Ellia, J.G. Saunders and W.R. Boynton - Ches. Biol. Lab.
3:25	Development and Verification of a Simplified Nitrogen Mass Balance Model in a Shallow Eutrophied Estuary Seasonally Dominated by Ulva lactuca M.D. Curtis, D.A. Johnson, B.L. Welsh - Univ. Connecticut
3:45	<pre>Is Lower Narragansett Bay Becoming Eutrophic? T. Smayda - GSO/URI</pre>
4:05	Evaluation of Mechanism Controlling Ecosystems Dynamics Under Eutrophication: a Mesocosm Perspective P.L. Donaghay - GSO/URI
4:20	Panel Discussion: What have we learned from the alternative approaches to the study of eutrophication?
Panel	Members: P.L. Donaghay (URI), C.F. D'Ellia (CBL), V. Smetacek (Univ. Kiel, W. Germany), T.J. Smayda (URI), M.E.Q. Pilson (URI), V. Bierman (EPA-ERL Narragansett)