

BROWN UNIVERSITY CURRICULUM VITAE
WARREN L. PRELL
Henry L. Doherty Professor
Department of Geological Sciences
Brown University

1. Warren L Prell
 Henry L. Doherty Professor of Oceanography
 Department of Geological Sciences, Box 1846
 Brown University, Providence, RI 02912
 (401) 863-3221

3. EDUCATION

- B.A. Hanover College, 1966
 Honors: Department Honors in Geology, Hanover College, Alumni Award, Phi Eta Sigma (Scholastic Honor)
- Ph.D. Columbia University, 1974
 Topic: Late Pleistocene Sedimentary, Faunal and Temperature History of the Colombia Basin, Caribbean Sea
- M.A. Brown University (ad eundem), 1981

4. PROFESSIONAL APPOINTMENTS

- 2005-2008 Chair, Department of Geological Sciences
- 1990- Henry L. Doherty Chair in Oceanography, Department of Geological Sciences, Brown University, Providence, RI
- 1989- Professor, Department of Geological Sciences, Brown University
- 1989-1993 Chair, Department of Geological Sciences
- 1982-1989 Associate Professor, Department of Geological Sciences
- 1980-1981 Associate Professor (Research), Department of Geological Sciences
- 1975-1980 Assistant Professor (Research), Department of Geological Sciences
- 1973-1975 Director of Oceanographic and Geologic Programs, New York State Energy Research and Development Authority, New York City:

Related Professional Experience

- 2002-2004 Chair of US Science Advisory Committee to the Joint Oceanographic Incorporated and US Science Support Program.
- 1999 Co-Chief Scientist, Ocean Drilling Program Leg 184 (South China Sea)
- 1995 Co-Chief Scientist, TN 047 JGOFS Arabian Sea Process Study, RV T. Thompson, Arabian Sea, May, Muscat-Muscat
- 1994 Co-Chief Scientist, TN 041 JGOFS Arabian Sea Process Study, RV T. Thompson, Arabian Sea, October, Muscat-Muscat
- 1993-94 Visiting Professor, College of Oceanic and Atmospheric Sciences, Oregon State University
- 1987 Chief Scientist, NSF Ocean Drilling Program Leg 117, Arabian Sea, Indian Ocean
- 1986 Chief Scientist, Arabian Sea Monsoon Expedition, on R/V Robert C. Conrad
- 1985 Visiting Assoc. Prof., Center for Climate Research, U. Wisconsin, Madison
- 1985 Distinguished Visiting Prof., Quaternary Res. Center, U. Washington, Seattle
- 1979 Co-Chief Scientist, Deep Sea Drilling Program Leg 68, on Glomar Challenger
- 1978-81 Acting Director of CLIMAP Program
- 1977 Co-Chief Scientist, Cruise V34-07 to Indian Ocean, on R/V Vema

1971 Scientist (Sedimentologist), Deep Sea Drilling Project Leg 15, Glomar Challenger
1967 Geologist, R/V Eastward, E8-67

5. Completed Research, Scholarship

a. Books/Monographs

- Prell, W.L., and Gardner, J.V., eds., 1982. *Initial Reports of the Deep Sea Drilling Project*, vol. 68, Washington, DC (U.S. Government Printing Office), 495 p.
- Curry, J.R., Prell, W.L., and Weissel, J.K., 1984. *Conveners and Editors' Report on Future Scientific Drilling in the Indian Ocean*, 250 p.
- Prell, W.L., Niitsuma, N., et al. (eds.), 1989. *Proc. ODP, Init. Repts.*, 117, College Station, TX (Ocean Drilling Program), 1236 p.
- Prell, W.L., Niitsuma, N., et al. (eds.), 1991. *Proceedings ODP, Scientific Results 117*, College Station, TX (Ocean Drilling Program), 638 pages.
- Summerhayes, C.P., Prell, W.L., and K.C. Emeis (eds.), 1992. *Evolution of upwelling systems since the Early Miocene*. Geological Society Special Publication No. 64, London, 519 p.
- Prell, W.L., (ed), 1996, GE111 Class Report, Oceanography of the Hundred Acre Cove Estuary System, ~ 100p.
- Prell, W.L., (ed), 1997, GE111 Class Report, Oceanography of the Palmer/Warren River Estuary System, ~ 100p.
- Prell, Warren L., Pinxian Wang (Co-Chief Scientists) and Peter Blum (Staff Scientist), 1998. Leg 184 Scientific Prospectus: South China Sea, Ocean Drilling Program, Scientific Prospectus NO. 84, Texas A&M University Research Park, 1000 Discovery Drive, College Station, Texas 77845-9547, U.S.A.
- Pinxian Wang, Prell, Warren L. (Co-Chief Scientists) and Peter Blum (Staff Scientist), 1999. LEG 184 PRELIMINARY REPORT (11 February – 12 April 1999), OCEAN DRILLING PROGRAM, preliminary report NO. 84, Texas A&M University Research Park, 1000 Discovery Drive, College Station, Texas 77845-9547, U.S.A., 102 p.
- Prell, W.L., (ed), 1999, GE111 Class Report, Oceanography of the hundred Acre Cove-Warren River Estuary System, ~ 100p. ed W
- Prell, W. L., Wang, P., Blum, P., and Rea, D. (Eds.), 2003, Proc. ODP, Sci. Results, 184, Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA
- Clemens, S., Wang, P., and Prell (Eds), 2003, Marine Geology, V201, 1-3, Special Issue: Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch Time Scales
- Prell, W.L., (ed), 2006, GE111 Class Report on *Estuarine Oceanography of Narragansett Bay*, 188p.

b. Chapters in Books

- Prell, W. and Kutzbach, 1997, The Impact of Tibet-Himalayan Elevation on the Sensitivity of the Monsoon Climate System to Changes in Solar Radiation, in *Tectonic Uplift and Climate Change*, pp. 171-201, Plenum Press, New York
- Kutzbach, J., Ruddiman, W., and Prell, W., 1997, Possible Effects of Cenozoic Uplift and CO₂ Lowering on Global and Regional Hydrology, in *Tectonic Uplift and Climate Change*, pp. 149-170, Plenum Press, New York
- Ruddiman, W. and Prell, W., 1997, Introduction to the Uplift- Climate Connection, in *Tectonic Uplift and Climate Change*, pp. 3-15, Plenum Press, New York
- Ruddiman, W., Raymo, M., and Prell, W., and Kutzbach, J., 1997, The Uplift-Climate Connection: A Synthesis, in *Tectonic Uplift and Climate Change*, pp. 471-515, Plenum Press, New York
- Saarman, E., Prell, W., Murray, D., Deacutis, C., 2008, Chapter 11: Summer bottom water dissolved oxygen in Upper Narragansett Bay in *Science for Ecosystem-based Estuarine*

Management: Narragansett Bay in the 21st Century, Desbonnet & Costa-Pierce (eds.), Springer Series In Environmental Management.

c. Refereed Journal Articles (past year in bold)

- Edgar, N.T., Saunders, J.B., et al., 1973. Initial Reports of the Deep Sea Drilling Project, v.XV, Washington (U.S. Government Printing Office). Participated in reports on Sites 151, 152, 153, and 154.
- Hill, D., McIlroy, W., and Prell, W., 1975. Cost-effective design and operation of an oceanographic research program for offshore nuclear plant siting: Offshore Technology Conference Paper No. OTC 2397, p. 603-608.
- Prell, W.L., and Hays, J.D., 1976. Late Pleistocene faunal and temperature patterns of the Colombia Basin, Caribbean Sea. In: (Cline, R.M., and Hays, J.D., eds.) *Investigation of Late Quaternary Paleoceanography and Paleoclimatology*, GSA Memoir 145, p. 201-220.
- Prell, W.L., Gardner, J.V., Be, A.W.H., and Hays, J.D., 1976. Equatorial Atlantic and Caribbean faunas, temperatures, and circulation: Interglacial versus glacial. In: (Cline, R.M., and Hays, J.D., eds.) *Investigation of Late Quaternary Paleoceanography and Paleoclimatology*, GSA Memoir 145, p. 247-266.
- McIntyre, A., Kipp, N.G., Be, A.W.H., Crowley, T.J., Kellogg, T., Gardner, J.V., Prell, W.L., and Ruddiman, W.F., 1976. The glacial North Atlantic 18,000 years ago: A CLIMAP reconstruction. In: (Cline, R.M., and Hays, J.D., eds.) *Investigation of Late Quaternary Paleoceanography and Paleoclimatology*, GSA Memoir 145, p. 43-76.
- CLIMAP Project Members, 1976. The surface of the Ice-Age Earth. *Science* **191**:1131-1137.
- Prell, W.L., 1977. Winnowing of Recent and Late Quaternary deep-sea sediments: Colombia Basin, Caribbean Sea. *J. Sedimentary Petrology* **47**:1583-1592.
- Prell, W.L., 1978. Upper Quaternary sediments of the Colombia Basin: Spatial and stratigraphic variation, *GSA Bulletin* **89**:1241-1255.
- Prell, W.L., and Damuth, J.E., 1978. The climate-related diachronous disappearance of *Pulleniatina obliquiloculata* in late Quaternary sediments of the Atlantic and Caribbean. *Marine Micropaleontology* **3**:267-277.
- Prell, W.L., 1979. Glacial/interglacial variability of monsoonal upwelling: Western Arabian Sea. In: *Evolution of Planetary Atmospheres and Climatology of the Earth*, Centre Nationales d'Etudes Spatiales, Nice, France, p. 149-156.
- Prell, W.L., Hutson, W.H., and Williams, D.F., 1979. The subtropical convergence and late Quaternary circulation in the southern Indian Ocean. *Marine Micropaleontology* **4**:225-234.
- Prell, W.L., and Hutson, W.H., 1979. Zonal temperature-anomaly maps of Indian Ocean surface waters: Modern and Ice-Age patterns. *Science* **206**:54-456.
- Prell, W.L., Hutson, W.H., Williams, D.F., Be, A.W.H., Geitzenauer, K., and Molfino, B., 1980. Surface circulation of the Indian Ocean during the last glacial maximum: Approximately 18,000 yr BP. *Quaternary Research* **14**:309-336.
- Prell, W.L., Gardner, J.V., et al., 1980. Hydraulic piston coring of Late Neogene and Quaternary sections in the Caribbean and equatorial Pacific: Preliminary results of DSDP Leg 68. *GSA Bulletin, Part I*, **91**:433-444.
- Hutson, W.H., and Prell, W.L., 1980. A paleoecological transfer function, FI-2, for Indian Ocean planktonic foraminifera. *J. Paleontology* **54**:381-399.
- Prell, W.L., and Curry, W.B., 1981. Faunal and isotopic indices of the Southwest Monsoon upwelling, Arabian Sea. *Oceanologica Acta* **4**:91-98.
- CLIMAP Project Members, 1981. Seasonal reconstruction of the Earth's surface at the last glacial maximum. *GSA Map and Chart Series No.36*. 21 p.

- Moore, Jr., T.C., Hutson, W.H., Kipp, N., Hays J.D., Prell, W. L., Thompson, P., and Boden, G., 1981. The Biology of the Ice Age Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology* **35**:357-370.
- Prell, W.L., and Streeter, H.F., 1982. Temporal and spatial patterns of monsoonal upwelling along Arabia: A modern analogue for the interpretation of Quaternary SST anomalies. *J. Marine Research* **40**:143-155.
- Prell, W.L., 1982. Reply to comments by P.J. Webster and N.A. Streten regarding "Surface Circulation of the Indian Ocean During the Last Glacial Maximum Approximately 18,000 YBP". *Quaternary Research* **7**:128-131.
- Prell, W.L., 1982. Oxygen and carbon isotope stratigraphy for the Quaternary of Hole 502B: Evidence for two modes of isotopic variability. In: (Prell, W.L., Gardner, J.V., et al. eds.) *Initial Reports of the Deep Sea Drilling Project*, vol. 68, Washington, DC (U.S. Government Printing Office), p. 453-464.
- Prell, W.L., Gardner, J.V., et al., 1982. Colombia Basin, western Caribbean Sea, Site 502. In: (Prell, W.L., Gardner, J.V., et al. eds.) *Initial Reports of the Deep Sea Drilling Project*, vol. 68, Washington, DC (U.S. Government Printing Office), p. 15-162.
- Prell, W.L., Gardner, J.V., et al., 1982. Eastern equatorial Pacific, Site 503. In: (Prell, W.L., Gardner, J.V., et al. eds.) *Initial Reports of the Deep Sea Drilling Project*, vol. 68, Washington, DC (U.S. Government Printing Office), p. 163-292.
- Swann, D., and Prell, W.L., 1983. *The geohydrology of Barrington, Rhode Island*. Rhode Island Statewide Planning Program, 61 p.
- Prell, W.L., 1984. Monsoonal climate of the Arabian Sea during the late Quaternary: A response to changing solar radiation. In: (Berger, A., and Imbrie, J. eds.) *Milankovitch and Climate*, D. Reidel Publ. Co., Dordrecht, Holland, p. 349-366.
- Start, G.G., and Prell, W.L., 1984. Evidence for two Pleistocene climatic modes: Data from DSDP Site 502. In: (Berger, A., and Nicholis, eds.) *New Perspectives in Climate Modelling, Developments in Atmospheric Sciences*, Elsevier, Holland, p. 3-22.
- Howard, W.R., and Prell, W.L., 1984. A comparison of radiolarian and foraminiferal paleoecology in the Southern Indian Ocean: New evidence for the interhemispheric timing of climatic change. *Quaternary Research* **21**:244-263.
- Prell, W.L., 1984. Variation of monsoonal upwelling: A response to changing solar radiation. In: (Hansen and Takahashi, eds.) *Climate Processes: Sensitivity to Solar Irradiance and CO₂*, Fourth Ewing Symposium, AGU, Washington, DC, p. 48-57.
- Duplessy, J.C., Shackleton, N.J., Matthews, R.K., Prell, W.L., Ruddiman, W.R., Caralp, M., and Henry, C., 1984. The Carbon-13 record of benthic foraminifera in the last interglacial ocean: Implications for the carbon cycle and the global deep water circulation. *Quaternary Research* **21**:225-243.
- CLIMAP members, 1984. The last interglacial ocean. *Quaternary Research* **21**:123-224.
- Cullen, J.L., and Prell, W.L., 1984. Planktonic foraminifera of the northern Indian Ocean: Distribution and preservation in surface sediments. *Marine Micropaleontology* **9**:1-52.
- Imbrie, J., Hays, J.D., Martinson, D.G., McIntyre, A., Mix, A.C., Morley, J.J., Pisias, N.G., Prell, W.L., and Shackleton, N.J., 1984. The orbital theory of Pleistocene climate: Support from a revised chronology of the marine d¹⁸O record. In: (Berger, A., et al. eds.) *Milankovitch and Climate*, D. Reidel Publishing Company, Part I, p. 269-305.
- Pisias, N.G., Martinson, D.G., Moore, Jr., T.C., Shackleton, N.J., Prell, W., Hays, J.D., and Boden, G., 1984. High resolution stratigraphic correlation of benthic oxygen isotopic records spanning the last 300,000 years. *Marine Geology* **56**:119-136.
- Prell, W.L., 1984. Covariance patterns of foraminiferal d¹⁸O: An evaluation of Pliocene ice volume changes near 3.2 million years ago. *Science* **226**:692-694.

- Pisias, N.G., and Prell, W.L., 1985. High resolution carbonate records from the hydraulic piston cored section of Site 572. In: (Meyer, L., Theyer, F., et al. eds.) *Initial Reports of the Deep Sea Drilling Project*, vol. 85, Washington, DC (U.S. Government Printing Office), p. 711-722.
- Prell, W.L., 1985. Pliocene stable isotope and carbonate stratigraphy (Holes 572C and 573A): Paleooceanographic data bearing on the question of Pliocene glaciation. In: (Mayer, L., Theyer, F., et al. eds.) *Initial Reports of the Deep Sea Drilling Project*, vol. 85, Washington, DC (U.S. Government Printing Office), p. 723-734.
- Prell, W.L., 1985. The stability of low-latitude sea-surface temperatures: An evaluation of the CLIMAP reconstruction with emphasis on the positive SST anomalies. U.S. Dept of Energy, Office of Energy Research, TRO25 (U.S. Government Printing Office), 60 p.
- Peterson, L.C., and Prell, W.L., 1985. Carbonate preservation and rates of climatic change: An 800 KYR record from the Indian Ocean. In: (Sundquist, E.T., and Broecker, W.S. eds.) *The Carbon Cycle and Atmospheric CO₂: Natural Variations Archean to Present*, Geophysical Monograph 32, AGU, p. 251-269.
- Peterson, L.C., and Prell, W.L., 1985. Carbonate dissolution in recent sediments of the eastern equatorial Indian Ocean: Preservation patterns and carbonate loss above the lysocline. *Marine Geology* **64**:59-290.
- Prell, W.L., Imbrie, J., Martinson, D.G., Morley, J.J., Pisias, N.G., Shackleton, N.J., and Streeter, H.F., 1986. Graphic correlation of oxygen isotope stratigraphy: Application to the late Quaternary. *Paleoceanography* **1**(2):137-162.
- Prell, W.L., and Van Campo, E., 1986. Coherent response of Arabian Sea upwelling and pollen transport to late Quaternary monsoonal winds. *Nature* **23**:526-528.
- Clemens, S.C., Prell, W.L., and Howard, W.R., 1987. Retrospective dry bulk density estimates from southeast Indian Ocean sediments: Comparison of water loss and chloride-ion methods. *Marine Geology* **6**:57-69.
- Prell, W.L., 1987. Climatic Changes: Sea-level changes and mass wasting. In: (Folger, D.W., and Hathaway, J.C. eds.) *Conference on Continental Margin Mass Wasting and Pleistocene Sea-Level Changes*, USGS Circular No. 961, p. 61-69.
- Prell, W.L., and Kutzbach, J.E., 1987. Monsoon variability over the past 150,000 years. *J. Geophys. Res.* **92**:8411-8425.
- Prell, W.L., Niitsuma, N., Emeis, K., and Shipboard Participants, 1987. *Leg 117 Preliminary Report. Ocean Drilling Program Report*, 40 p.
- COHMAP Members, 1988. Major climatic changes of the last 18,000 years: Observations and Model Simulations. *Science* **241**:1043-1052.
- Prell, W.L., 1988. Climate data and events on orbital time scales. In: (Rea, D. ed.) *Status of Paleoclimatic Research: An Excerpt from the April 1987 NSF Climate Dynamics Workshop on Data-Model Interactions*. *Bull. Amer. Meteorological Soc.* **69**:390-395.
- Prell, W.L., Niitsuma, N., Emeis, K., and Shipboard Participants, 1988. ODP Leg 117: Milankovitch and Monsoons. *Nature* **331**:663-664.
- Prell, W.L., Niitsuma, N., Emeis, K., and Shipboard Participants, 1988. Leg 117 finds mountains, monsoons. *Geotimes* **3**:13-16.
- DuBois, L.G., and Prell, W.L., 1988. Effects of carbonate dissolution on the radiocarbon age structure of sediment mixed layers. *Deep-Sea Research* **35**(12):1875-1885.
- Mountain, G.S., and Prell, W.L., 1989. Geophysical Reconnaissance Survey for ODP Leg 117 in the Northwest Indian Ocean. In: (Prell, W. L. and Niitsuma, N., et al. eds.) *Proc. ODP, Init. Repts., 117*, College Station, TX (Ocean Drilling Program), p. 51-64.
- Farrell, J., and Prell, W.L., 1989. Climatic change and CaCO₃ preservation: An 800,000 year bathymetric reconstruction from the central equatorial Pacific Ocean. *Paleoceanography* **4**:447-466.

- Anderson, D.M., Prell, W.L., and Barratt, N.J., 1989. Estimates of sea surface temperature in the Coral Sea at the Last Glacial Maximum. *Paleoceanography* **4**:615-678.
- Ruddiman, W.F., Prell, W.L., and Raymo, M.E., 1989. History of Late Cenozoic uplift in southeast Asia and the American Southwest: Rationale for general circulation experiments. *J. Geophys. Res. Atmospheres* **94**:18,379-18,391.
- Kutzbach, J.E., Guetter, P.J., Ruddiman, W.F., and Prell, W.L., 1989. The sensitivity of climate to Late Cenozoic uplift in southeast Asia and the American Southwest: Numerical experiments. *J. Geophys. Res. Atmospheres* **94**:18,393-18,407.
- Prell, W.L., et al., 1990. Neogene tectonics and sedimentation of the SE Oman Continental Margin: Results from ODP Leg 117. In: (Robertson, A.H.F., Searle, M.P., and Ries, A.C. eds.) *The Geology and Tectonics of the Oman Region*, Special Publication of the Geological Society, p. 745-756.
- Mountain, G.S., and Prell, W.L., 1990. A multiphase plate tectonic history of the southeast continental margin of Oman. In: (Robertson, A.H.F., Searle, M.P., and Ries, A.C. eds.) *The Geology and Tectonics of the Oman Region*, Special Publication of the Geological Society, p. 725-744.
- Clemens, S.C., and Prell, W.L., 1990. Late Pleistocene variability of Arabian Sea summer-monsoon winds and dust source-area aridity: An eolian record from the lithogenic component of deep-sea sediments. *Paleoceanography* **5**:109-145.
- Luther, M.W., O'Brien, J.J., and Prell, W.L., 1990. Variability in upwelling fields in the northwestern Indian Ocean over the past 18,000 Years; 1. Model Experiments. *Paleoceanography* **5**:433-446.
- Prell, W.L., Marvil, R.E., Luther, M.E., O'Brien, J.J., 1990. Variability in upwelling fields in the northwestern Indian Ocean; 2. Data-model comparison at 9,000 years B.P. *Paleoceanography* **5**:447-457.
- Van Campo, E., Duplessy, J.C., Prell, W.L., and Barratt, N., 1990. Comparison of terrestrial and marine temperature estimates for the past 135 kyr off southeast Africa: A test for GCM simulations of palaeoclimate. *Nature* **348**:209-212.
- Anderson, D.M., and Prell, W.L., 1991. Coastal upwelling gradient during the late Pleistocene. In: (Prell, W.L., Niitsuma, N., et al. eds.) *Proc. ODP, Scientific Results 117*, College Station, TX (Ocean Drilling Project), p. 265-276.
- Clemens, S.C., and Prell, W.L., 1991. One million year record of summer-monsoon winds and continental aridity from the Owen Ridge (Site 722), northwest Arabian Sea. In: (Prell, W.L., Niitsuma, N., et al. eds.) *Proc. ODP, Scientific Results 117*, College Station, TX (Ocean Drilling Program), p. 365-388.
- Murray, D.W., and Prell, W.L., 1991. Pliocene to Pleistocene variations in calcium carbonate, organic carbon, and opal on the Owen Ridge, northern Arabian Sea. In: (Prell, W.L., Niitsuma, N., et al. eds.) *Proc. ODP, Scientific Results 117*, College Station, TX (Ocean Drilling Program), p. 343-363.
- Prell, W.L., 1991. Paleooceanographic Aspects of the Arabian Sea Upwelling. In: (Smith, S.L., et al. eds.) *U.S. JGOFS: Arabian Sea Process Study*, U.S. JGOFS Planning Report No. 13, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, 164 pp.
- Clemens, S., Prell, W., Murray, D., Shimmield, G., and Weedon, G., 1991. Forcing mechanisms of the Indian Ocean monsoon. *Nature* **353**:720-725.
- Farrell, J.W., and Prell, W.L., 1991. Pacific CaCO₃ preservation and δ¹⁸O since 4 Ma: Paleoceanic and paleoclimatic implications/ *Paleoceanography* **6(4)**:485-498.
- Clemens, S.C., and Prell, W.L., 1991. Late Quaternary forcing of the Indian Ocean summer-monsoon winds: A comparison of Fourier model and general circulation model results. *J. Geophys. Res.* **96**:12.

- Brock, J.C., McClain, C.R., Anderson, D.M., Prell, W.L., and Hay, W.W., 1992. Southwest monsoon circulation and environments of recent planktonic foraminifera in the Northwestern Arabian Sea. *Paleoceanography* **7**: 799-813.
- DeMenocal, P.B., Oppo, D.W., Fairbanks, R.G., and Prell, W.L., 1992. Pleistocene variations in North Atlantic intermediate water $\delta^{13}\text{C}$: Implications for ocean circulation and atmospheric CO_2 . *Paleoceanography* **7**:229-250.
- Howard, W.R., and Prell, W.L., 1992. Late Quaternary surface circulation of the southern Indian Ocean and its relationship to orbital variations. *Paleoceanography* **7**:79-118.
- Anderson, D.M., Brock, J.C., and Prell, W.L., 1992. Physical upwelling processes, upper ocean environment, and the sediment record of the southwest monsoon. In: (Summerhayes, C.P., Prell, W.L., Emeis, K.C. eds.) *Evolution of Upwelling Systems Since the Early Miocene*, Geological Society Special Publication No. 64, London, p. 121-129.
- Murray, D.W., and Prell, W.L., 1992. Late Pliocene and Pleistocene climatic oscillations and monsoon upwelling recorded in sediments from the Owen Ridge, northwest Arabian Sea. In: (Summerhayes, C.P., Prell, W.L., Emeis, K.C. eds.) *Evolution of Upwelling Systems Since the Early Miocene*, Geological Society Special Publication No. 64, London, p. 301-321.
- Summerhayes, C.P., Prell, W.L., and K.C. Emeis, 1992. Evolution of upwelling systems since the Early Miocene. In: (Summerhayes, C.P., Prell, W.L., Emeis, K.C. eds.) *Evolution of Upwelling Systems Since the Early Miocene*, Geological Society Special Publication No. 64, London, p. 1-5.
- Webb, III, T., Kutzbach, J.E., Ruddiman, W.F., Street-Perrott, F.A., Markgraf, V., Bartlein, P.J., Wright, Jr., H.E., and Prell, W.L., 1992. Chapter 19: Data/model comparisons: The COHMAP synthesis. In: (Wright, Jr., H.E., Kutzbach, J.E., Webb, III, T., Ruddiman, W.F., Street-Perrott, F.A., and Bartlein, P.J. eds.) *Global Climates Since the Last Glacial Maximum*.
- Anderson, D.M., and Prell, W.L., 1992. The structure of the southwest monsoon winds over the Arabian Sea during the late Quaternary: Observations, simulations, and marine geologic evidence. *J. Geophys. Res.* **97(C10)**:15,481-15,487.
- Clemens, S.C., and Prell, W.L., 1992. Comments on "Paleoclimatic Significance of the Mineral Magnetic Record of the Chinese Loess and Paleosols." *Quaternary Research* **38**:265-267.
- Imbrie, J., Boyle, E.A., Clemens, S.C., Duffy, A., Howard, W.R., Kukla, G., Kutzbach, J., Martinson, D.G., McIntyre, A., Mix, A.C., Molino, B., Morley, J.J., Peterson, L.C., Pisias, N.G., Prell, W.L., Raymo, M.E., Shackleton, N.J., and Toggweiler, J.R., 1992. The structure and origin of major glaciation cycles. Part 1: Linear responses to Milankovitch forcing. *Paleoceanography* **7(6)**: 701-738.
- Prell, W.L., and Kutzbach, J.E., 1992. Sensitivity of the Indian monsoon to changes in orbital parameters, glacial and tectonic boundary conditions and atmospheric CO_2 concentration. *Nature* **360**: 647-652.
- Prell, W.L., 1992. Paleoceanographic aspects of the Arabian Sea upwelling. In: (S.L. Smith, et. al., eds.) *U.S. JGOFS: Arabian Sea Process Study*, US JGOFS Planning Report No. 13, Woods Hole Oceanographic Institution, Woods Hole, MA, pp. 119-134.
- Prell, W.L., Murray, D.W., Clemens, S.C. and Anderson, D.W., 1992. Evolution and variability of the Indian Ocean summer monsoon: Evidence from the western Arabian Sea drilling program. In: *The Indian Ocean: A Synthesis of Results from the Ocean Drilling Program*, Geophysical Monograph 70, American Geophysical Union, pp. 447-469.
- Kutzbach, J.E., Prell, W.L., and Ruddiman, W.F., 1993. Sensitivity of Eurasian climate to uplift of the Tibetan Plateau. *J. Geol.* **101**:179-192.

- Imbrie, J., A. Berger, Boyle, E.A., Clemens, S.C., Duffy, A., Howard, W.R., Kukla, G., Kutzbach, J., Martinson, D.G., McIntyre, A., Mix, A.C., Molfino, B., Morley, J.J., Peterson, L.C., Pisias, N.G., Prell, W.L., Raymo, M.E., Shackleton, N.J., and Toggweiler, J.R., 1993. On the structure and origin of major glaciation cycles. Part 2: The 100,000-year cycle. *Paleoceanography* **8(6)**: 699-735.
- Anderson, D.M. and W.L. Prell, 1993, A 300KYR Record of Upwelling off Oman During the Late Quaternary: Evidence of the Asian Southwest Monsoon, *Paleoceanography*, **8(6)**: 193-208.
- Webb, III, T., Kutzbach, J.E., Ruddiman, W.F., Street-Perrott, F.A., Markgraf, V., Bartlein, P.J., Wright, Jr., H.E., and Prell, W.L., 1993. Chapter 19: Data/model comparisons: The COHMAP synthesis. In: Wright, Jr., H.E., Kutzbach, J.E., Webb, III, T., Ruddiman, W.F., Street-Perrott, F.A., and Bartlein, P.J., eds. *Global Climates Since the Last Glacial Maximum*,
- Howard, W.R., and Prell, W.L., 1994, Late Quaternary CaCO₃ Production and Preservation in the Southern Ocean: Implications for Oceanic and Atmospheric Carbon Cycling, *Paleoceanography*, **9(3)**: 453-482.
- Chen, J., Farrell, J.W., Murray, D.W., and Prell, W.L., 1995, Timescale and paleoceanographic implications of a 3.6 m.y. oxygen isotope record from the northeast Indian Ocean (Ocean Drilling Program Site 758), *Paleoceanography*. 10(1), 21-47.
- Altabet, M.A., Francois, R., Murray, D.W. and Prell, W.L., 1995, Climate-related variations in denitrification in the Arabian Sea for sediment ¹⁵N/¹⁴N ratios, *Nature*, **373**: 506-509.
- Felzer, B., Oglesby, R.J., Shao, H., Webb, T. III, Hyman, D.E., Prell, W.L. and Kutzbach, J.E., 1995, A systematic study of GCM sensitivity of latitudinal changes in solar radiation, *J. Climate*, **8(4)**: 877-887.
- Oppo, D.W., Raymo, M.E., Lohmann, G.P., Mix, A.C., Wright, J.D., and Prell, W.L., 1995, A ^d13C record of upper North Atlantic Deep Water during the past 2.6 m.y. *Paleoceanography* **10(3)**: 373-394.
- Overpeck, J., Anderson, D., Trumbore, S., and Prell, W., 1996, The southwest Indian Monsoon over the last 18,000 years, *Climate Dynamics* 12: 213-225.
- Clemens, S.C., Murray, D.W., and Prell, W.L., 1996, Nonstationary Phase of the Pre-Pleistocene Asian Monsoon, *Science*, 274: 943-948.
- Chen, M-T and Prell, W.L., 1998, Faunal distribution patterns of planktonic foraminifera in surface sediments of the low-latitude Pacific, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 137, 55-77.
- C. Lee, D. Murray, R. Barber, K. Buesseler, J. Dymond, J. Hedges, S. Honjo, S. Manganini, J. Marra, C. Moser, M. Peterson, W. Prell, S. Wakeham (the Arabian Sea Carbon Flux Group), 1998, Particulate organic carbon fluxes: Compilation of Results from the 1995 U.S. JGOFS Arabian Sea Process Study, *Deep-Sea Research II*, Topical Studies in Oceanography, The 1994-1996 Arabian Sea Expedition: Oceanic Response to Monsoonal Forcing , Part 1, Vol 45, 2489-2501.
- Donnelly, J.P., T. Webb III, and W.L. Prell, 1999. The Influence of Accelerated Sea-Level Rise, Human Modification and Storms on a New England Salt Marsh, *Current Topics in Wetland Biogeochemistry*, v3, 152-160.
- Honjo, S., Dymond, J., Prell, W., and Ittekkot, V., 1999, Monsoon-controlled Export Fluxes to the Interior of the Arabian Sea, *Deep-Sea Research II*, Topical Studies in Oceanography, The 1994-1996 Arabian Sea Expedition: Oceanic Response to Monsoonal Forcing , Part 2, Vol 46, 1859-1902.
- Altabet, M., Murray, D., and Prell, W., 1999, Climate-Linked Oscillations in Arabian Sea Denitrification over the last 1 m.y.: Implications for the Marine N Cycle, *Paleoceanography*, v14, 732-743.

- Rutherford, S., D'Hondt, S., Prell, W., 1999, Environmental controls on the geographic distribution of zooplankton diversity, *Nature*, v400, 749-753.
- Liu, Z. ; Shin, S.; Behling, P.; Prell, W.; Trend-Staid, M.; Harrison, S. P.; Kutzbach, J. E. 2000, Dynamical and observational constraints on tropical Pacific sea surface temperatures at the last glacial maximum , *Geophys. Res. Lett.* Vol. 27 , No. 1 , p. 105-108.
- Zhisheng An, Kutzbach, John E., Prell, Warren L., and Porter, Stephen C., 2001, Evolution of Asian monsoons and phased uplift of the Himalaya-Tibetan plateau since the Late Miocene times, *Nature*, v411, p. 62-66.
- Trend-Staid, M., and Prell, W. L. (2002). Sea surface temperature at the Last Glacial Maximum: A reconstruction using the modern analog technique. *Paleoceanography* 17, doi:10.1029/2000PA000506, 2002.
- Clemens, S.C. and Prell, W.L., 2003, Preliminary oxygen and carbon isotopes from Site 1146, northern south China Sea, in Prell, W. L., Wang, P., Blum, P., and Rea, D. (Eds.), in press, Proc. ODP, Sci. Results, 184, Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA
- Clemens, S., Wang, P., and Prell, Preface, 2003, *Marine Geology*, V201, 1-3, Special Issue on Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch Time Scales, p 1-3
- Clemens, S. and Prell, W., 2003, A 350,000 Year Summer-Monsoon Multi-Proxy Stack from the Owen Ridge, Northern Arabian Sea, *Marine Geology*V201, 1-3, Special Issue on Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch Time Scales, p 35-52.
- McKinna, V. S. and Prell, W. L., 2004, Calibration of the Mg/Ca of *G. truncatulinoides* for the Reconstruction of Marine Temperature Gradients, *Paleoceanography*
- Liu W., Huang Y., An Z., Clemens S., Li L., Prell W., and Ning Y., 2005, Summer monsoon intensity controls C4/C3 plant abundance during the last 35 ka in the Chinese Loess Plateau: carbon isotope evidence from bulk organic matter and individual leaf waxes, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 220, 243.
- An Zhisheng, Huang Yongsong, Liu Weiguo, Guo Zhengtang, Steven Clemens, Li Li, Warren Prell, Ning Youfeng, Cai Yanjun, Zhou Weijian, Lin Benhai, Zhang Qingle, Cao Yunning, Qiang Xiaoke, Chang Hong and Wu Zhenkun. 2005: Multiple expansions of C4 plant biomass in East Asia since 7 Ma coupled with strengthened monsoon circulation. *Geology*. Vol. 33, No. 9, pp. 705–708.
- Deacutis, C.F., Murray, D., Prell, W., Saarman, E., and Korhun, L., 2006, Hypoxia in the Upper Half of Narragansett Bay, RI, During August 2001 and 2002, in *Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem, Northeastern Naturalist* 13(Special Issue 4):173–198
- Liu, X., Liu, Z., Kutzbach, J., Clemens, S., Prell, W., 2006, Hemispheric insolation forcing of the Indian Ocean and Asian monsoon: Local versus remote impacts, *Journal of Climate*, 19, 6195-6208.
- Clemens, S. C., Prell, W.L., 2007, The timing of orbital-scale Indian monsoon changes, Article in *Quaternary Science Reviews*, *Quaternary Science Reviews*, Volume 26, Issues 3-4, February 2007, Pages 275-278
- Liu, X., Liu, Z., Clemens, S., Prell, W., Kutzbach, J., 2007, A Coupled Model Study of Glacial Asian Monsoon Variability and Indian Ocean Dipole, *Journal of the Meteorological Society of Japan*, Vol 85, No.1, pp. 1-10.
- Huang, Y., Clemens, S., Liu, W., Wang, Y., Prell, W., 2007, Large-scale hydrological change drove the late Miocene C4 plant expansion in the Himalayan foreland and Arabian Peninsula, *Geology*, v35, p. 531-534.
- Clemens, S.C., Prell, W.L., Sun, Y., Liu, Z., and Chen, G., 2008, Southern Hemisphere forcing

- of Pliocene $d^{18}O$ and the evolution of Indo-Asian monsoons, *Paleoceanography*, 23, doi: [10.1029/2008pa001638](https://doi.org/10.1029/2008pa001638).
- Nie, J., King, J., Liu, Z., Clemens, S., Prell, W., Fang, X., 2008, Surface-water freshening: A cause for the onset of North Pacific stratification from 2.75 Ma onward?, *Global and Planetary Change*, 64 (1-2), 49-52.
- Steven C. Clemens, Warren L. Prell, and Youbin Sun, 2010, Orbital-scale timing and mechanisms driving Late Pleistocene Indo-Asian summer monsoons: Reinterpreting cave speleothem $d^{18}O$, *PALEOCEANOGRAPHY*, VOL. 25, PA4207, doi:10.1029/2010PA001926.
- Guang-Shan Chen, Zhengyu Liu, Steven C. Clemens, Warren L. Prell, and Xiaodong Liu, 2010, Modeling the time-dependent response of the Asian summer monsoon to obliquity forcing in a coupled GCM: a PHASEMAP sensitivity experiment, *Clim Dyn*, DOI 10.1007/s00382-010-0740-3
- An Zhisheng, Steven C. Clemens, Ji Shen, Xiaoke Qiang, Zhangdong Jin, Youbin Sun, Warren L. Prell, Jingjia Luo, Sumin Wang, Hai Xu, Yanjun Cai, Weijian Zhou, Xiaodong Liu, Weiguo Liu, Zhengguo Shi, Libin Yan, Xiayun Xiao, Hong Chang, Feng Wu, Li Ai & Fengyan Lu, 2011, Glacial-interglacial Indian summer monsoon dynamics, *Science*, Vol. 333 no. 6043 pp. 719-723, DOI: 10.1126/science.1203752**
- David L. Taylor, Jennifer C. Linehan, David W. Murray, and Warren L. Prell, 2012, accepted in press, Indicators of sediment and biotic mercury contamination in a southern New England estuary Narragansett Bay (Rhode Island, USA), *Marine Pollution Bulletin*.**
- Rocio P. Caballero-Gill, Steve Clemens, and Warren Prell, 2012 accepted in press, Antarctic Isotope Maxima events 24 and 25 identified in benthic marine $\delta^{18}O$, *Paleoceanography***
- Rocio P. Caballero-Gill, Steve Clemens, and Warren Prell, 2012 in revision, Direct Correlation of Chinese Speleothem $\delta^{18}O$ and South China Sea Planktonic $\delta^{18}O$: Transferring a Speleothem Chronology to the Benthic Marine Chronology, *Paleoceanography***
- Ann Holbourn, Wolfgang Kuhnt, Steven Clemens, Warren Prell, Nils Andersen, submitted, Impact of late Miocene cryosphere expansion on Pacific meridional overturning, *Nature Geoscience***
- Salacup, J.M., Farmer, J.R., Herbert, T.D., and Prell, W.L., complete to be submitted, Alkenones Reveal a High-Resolution Record of Climate Change from Narragansett Bay, RI**
- Eric Ruggieri, Kira T. Lawrence, Steven_Clemens, Warren Prell, Charles E. Lawrence, in revision, A Two Step Transition from Orbitally Forced to Dynamic Ice Sheets, *GRL*. Thomas 1?t**

d. Non-refereed journal articles

e. Book Reviews

f. Recent Abstracts

- Krawczyk, K L, Clemens, S C, Prell, W L, Orchardo, J R, and Woolford, S, D/H and $\delta^{18}O$ -salinity relationships for Narragansett Bay, Rhode Island: Applications to Paleoenvironmental and Hydrology Studies, AGU Fall meeting, 2010**
- Salacup, J M, Herbert, T, Prell, W L, Pushing open-ocean organic paleo-environmental proxies to the margin: Narragansett Bay, RI AGU Fall meeting, 2010.**
- Prell, Warren; Murray, David; and Deacutis, Chris; 2011, A Synthesis of Spatial Surveys of Dissolved Oxygen in the Upper and Mid Narragansett Bay, NBC 2011**

Symposium - A Day on the Upper Bay: Current Monitoring, Research, Source Reduction Progress & Future Challenges

Murray, David; Prell, Warren, 2011, Gradients and Dispersal Patterns of Organic Matter and Metals as Recorded in Narragansett Bay Sediments, NBC 2011 Symposium - A Day on the Upper Bay: Current Monitoring, Research, Source Reduction Progress & Future Challenges

Salacup, JA, Theroux, S, Herbert, T, Prell, W L, 2011, Time-series of water column alkenones and 18S rRNA confirm that Uk'37 is a viable SST proxy in Narragansett Bay, RI, AGU Fall meeting, 2011.

g. Invited lectures

Over the years, I have not kept a list of all dates, places, and titles. During the past several years I gave the following:

Invited talk Prell, Warren; Murray, David; and Deacutis, Chris; 2011, A Synthesis of Spatial Surveys of Dissolved Oxygen in the Upper and Mid Narragansett Bay, NBC 2011 Symposium - A Day on the Upper Bay: Current Monitoring, Research, Source Reduction Progress & Future Challenges

Invited talk on Tectonics and Climate at Woods Hole Oceanographic Institution 3/09

Invited lecture Narragansett Bay to new Brown faculty, Bristol, RI, Oct., 6, 2000

Invited lectures at Tonji University, Shanghai, PRC on climate modeling of the Asian Monsoon, spectral analysis of paleoceanographic data, and interpretation of paleotemperature and isotopic data, Nov 6-13, 2000.

Invited lecture on Modern and Ancient Monsoons at the Department of Marine Sciences, University of Connecticut, March, 2001

Invited presentation at the Leg 184 Post Cruise Meeting in Beijing, PRC, May, 2001.

Invited keynote lecture, meeting on Human Dimensions and Natural Processes in Environmental Change The Institute of Earth Environments, Chinese Academy of Sciences, Xian P.R. China, May, 2001

Invited lecture at U.S. JGOFS Synthesis and Modeling Project (SMP) Workshop on Marine Calcification. June, 2001.

Invited keynote lecture at AGU Chapman Conference on Continent-Ocean Interactions within the East Asian Marginal Seas

Invited speaker RI Sea Grant Symposium - State of Science Knowledge on Nutrients in Narragansett Bay November 2004,

6. Research in Progress

My research continues to focus on both global-scale paleoceanography and local-scale estuarine oceanography. My global-scale paleoceanographic research seeks to understand the evolution of the Cenozoic climate-ocean system and especially the evolution of the Indian-Asian monsoon system and how it is forced by interaction between regional tectonic conditions and orbital forcing, and inter-hemisphere ocean feedbacks. Given this broad goal, my research strategy combines a mix of theory, data collection, and data analysis, all directed toward understanding the ocean's response to major changes in climate and physical boundary conditions. Recent efforts have included the study of changes on both the modern annual cycle and on geologic time scales.

My estuarine oceanography research seeks to understand the recent and past environmental history of Narragansett Bay. Specific studies have utilized our collection of over 400 surface sediment samples to identify and document the sediment size and elemental composition trends in Narragansett Bay, to measure and evaluate the populations of benthic foraminifers as environmental indicators, and to understand the distribution and causes of hypoxic

(low dissolved oxygen) waters in Narragansett Bay. These more recent research efforts are now producing results and grant opportunities

Major Research Grants over the past five years

- 1998-2002, Co-Chief Scientist Support, U.S. Science Support Program, Ocean Drilling Program, \$95,766
- 1999-2001, NSF-OCE, Testing the F. profunda Productivity Proxy in the Arabian Sea, \$172,271.
- 1999-2002, Climate Dynamics in the South China Sea, ODP Site 1146, USSAC; \$75,000
- 2000-2002, A Stable Isotope Ratio Mass Spectrometer (SIRMS) For Carbonate-Based Paleoceanographic Studies At Brown University (NSF), ~\$342,000.
- 2000-2003 NSF-OCE East Asian monsoon history: Testing hypothesis of monsoon response in the South China Sea \$290,000. (co-PI, Steve Clemens)
- 2003 Understanding Eutrophication And Hypoxia In Narragansett Bay: An Initiative To Strengthen Brown's Estuarine Research Efforts, Brown University Seed Grant, \$15,000
- 2003 A Test of Planktonic Foraminifer Sensitivity to Inter-Annual Changes in Upper Ocean Environments, NSF \$146,617, two years.
- 2004 Collaborative Research into Indo-Asian Monsoon Variability: Data and Model Assessment of Northern- and Southern-Hemisphere NSF \$459,331 four years (Co-PI Steve Clemens)
- 2004 Benthic Foraminifer Faunas As A Proxy For Mapping The Spatial And Temporal Extent Of Hypoxia In Narragansett Bay, Program Development Proposal, RI Sea Grant, \$7000.
- 2005 Warren Prell and Osvaldo Sala, A Wayland Collegium Faculty Seminar Stable Isotope Systems As Recorders Of The History And Process Of Environmental Change. ~\$10,000.
- 2006 ECI Proposal, Spatial And Temporal Controls On Global-Scale Marine Biodiversity Using Planktonic Foraminifer Populations, \$13,300.
- 2007 ECI Proposal, Testing the Use of Alkenones and Biomarkers to Develop an Independent Temperature and Environmental History of Narragansett Bay, Co-PI Tim Herbert, \$7,000
- 2005-2010 NOAA Coastal Hypoxia Research Program: Modeling Tools to Understand and Manage Hypoxia: Application to Narragansett Bay, a collaborative project with the Graduate School of Oceanography, URI, Virginia Institute of Marine Science, Rhode Island Department of Environmental Management, University of Connecticut, Avery Point, and Brown University, five years starting 8/05, total \$2,488,115, Brown University portion \$385033**
- 2010 RI-INBRE Collaborative Research Proposal, Fate of mercury contaminants in Narragansett Bay, Rhode Island, to the Institutional Development Award (IDeA) Network of Biomedical Research Excellence (INBRE), to work with Co-PI with David Taylor, at Roger Williams University**
- 2010-2012, RI Sea Grant, A Multi-Proxy Reconstruction of Anthropogenic-Induced Productivity and Spatial Coupling in Narragansett Bay, two years starting 2/10, \$199,134.**
- 2011-2014 NOAA Coastal Hypoxia Research Program: Modeling Tools to Understand and Manage Hypoxia: Application to Narragansett Bay, a collaborative project with the Graduate School of Oceanography, URI, Virginia Institute of Marine Science, Rhode Island Department of Environmental Management, University of Connecticut, Avery Point, and Brown University, three years starting 8/05, total \$2,488,115, Brown University portion \$385033**
- 2011 RI-INBRE Collaborative Research Proposal, Fate of mercury contaminants in Narragansett Bay, Rhode Island, from the Institutional Development Award (IDeA) Network of Biomedical Research Excellence (INBRE), to work with Co-PI with**

David Taylor, at Roger Williams University. A third year extension of the original two year grant.

2011-2014, NSF-OCE Collaborative Research: Pliocene and Pleistocene transient climate simulations and model-proxy comparisons for surface temperature and monsoon circulation as an International Collaboration Proposal, Co-PIs Clemens and Prell, amount

7. SERVICE

(i) SERVICE TO THE UNIVERSITY (current participation in bold)

Member of Brown-MBL joint graduate program review team

Chair, Search Committee for a Climate Modeler in ESH

Chair, Tenure Promotion committee for James Russell

Member, Search Committee for Planetary remote sensing position

Mentoring committee for Jessica Whiteside

Faculty Advisor to Brown Women's Soccer Team, 2000-current

Chair, Reappointment Committee for Steven Clemens

Leader of the Department field trip to Cape Cod Sept 10-12

Participant in Brown-MBL Retreat and curriculum discussions, 11/09

Brown representative to the UCAR Annual Member's Meeting Oct 4-7, 2010

Member, Academic Resources subcommittee, Organizational Review Committee, 2009

Participant in Brown-MBL Retreat and curriculum discussions, 11/09

Brown representative for PhD Thesis defense for Brown-MBL student, Yawei Luo, A Data Assimilating Model of the Microbial Ecosystem in the Open Ocean, May 2009

Organizer, Brown – MBL – NBEP Workshop on Nitrogen cycling and isotopes in Narragansett Bay, 2009

Brown representative to UCAR, University Consortium for Atmospheric Research, attended Annual UCAR Meeting, 10/09.

Faculty Advisor to Brown Women's Soccer Team - current

Chair, Department of Geological Sciences 2005-2008

Organizer, Wayland Collegium on Stable Isotope Systems As Recorders Of The History And Process Of Environmental Change,

Member, Environmental Sciences Curriculum Committee, 1994-2004

Brown University Research Council 1998-2003

Member, Executive Committee, Center for Environmental Studies, 1995-2003

New Faculty lecture on Narragansett Bay, Oct. 2000

Commencement Forum, 1997, Understanding Estuaries: An Oceanography Class Project

Chair, Steering Committee for Environmental Science Research Program, 1994-97

Chair, Department of Geological Sciences, 1989-1993

Departmental Chair's Agenda Committee, 1992-1993

Lecturer at Boston kickoff of Campaign Brown- The Rising Generation, 1993

Member, Advisory Board, WISE (Women in Science and Engineering), 1991-92

Member, Board of Environmental Studies, 1991-92

Member, Ad hoc Committee on Indirect Costs, 1991-92

Member, Executive Committee, Center for Environmental Studies, 1980-1983

Lecturer in Brown's Continuing College

Undergraduate Advisor for Geology-Biology concentration: 1977-1984, 1987-1989

Organizer, Careers Day for Geological Sciences: 1978-1983

Member of *ad hoc* Committee to review establishment of a Center for Fluid Mechanics, Turbulence and Computation, 1988

Co-organizer of symposium in honor of John Imbrie, "Climate Systems on Orbital Time Scales: How Does the Milankovitch Mechanism Work?" held at Brown University, June 1990.

(ii) SERVICE TO THE PROFESSION

WORKSHOP AND MEETINGS ACTIVITIES

Member external review committee for WHOI-MIT Joint Program in Oceanography, 2009
 Member, Woods Hole Oceanographic Institution, external tenure review committee 2008-2009
 Participant, Coastal Hypoxia Research program workshops, 2009
 Paleo Model Intercomparison Project (PMIP) meeting in Estes Park 2008
 NSF workshop Synthesizing Transient Evolution of Climate of the last 21-kyr (STEC-21)" at Madison, Wisconsin, 2008
 Participant in S4/ECI Conference, Impacts of Disaster: Comparing Ecological and Social Resilience, 3/2006, Brown University
 Participant in ECI/Global Environmental Program Conference, Frontiers of Environmental Change Research: Climate Change Drivers, Impacts, and Policy, 9/2005, Brown University
 RI Sea Grant Symposium - State of Science Knowledge on Nutrients in Narragansett Bay November 2004, invited speaker
 USSAC meeting July 2004, Washington D.C.
 CICOR Fellows meeting May 2004 Woods Hole MA
 IODP Scientific Planning Committee Meeting March 2004, Washington D.C.
 USSAC meeting, January 2004, Portland Oregon
 SPC meeting September 2003, Sapporo Japan
 USSAC meeting, July 2003, Bermuda
 JOI/USSAC workshop on IODP Drilling of the Indian Ocean Fan Systems, July 2003
 JOI/USSAC workshop on Geophysical Site Characterization and Needs (GEOSCAN), June 2003
 IODP International management meeting, May 2003, Austin Texas
 JOI/USSAC workshop on IODP Education Programs, May 2003
 SCICOM/iPC meeting, March 2003, Austin Texas
 AGU, USSAC chair presentation, December, 2002, San Francisco
 AGU Chapman Conference participant and co-editor, San Diego, CA, November 2002
 GSA, USSAC Chair presentation, Denver, CO, October 2002
 USSAC meeting, February 2003, St. Petersburg Florida
 USSAC meeting, July 2002, San Francisco CA
 CUSP meeting, co-chair, Washington, DC, June 2002
 MESH steering committee meeting, Washington D.C., June 2002
 USSAC meeting, February 2002, Chapel Hill, NC
 MESH meeting, San Francisco, December, 2001
 Co-Organizer of AGU Union Session, Milankovitch and Climate: Twenty-Five Years Later, American Geophysical Union Fall Meeting, December, 2001.
 USSAC meeting Seattle, Washington, July, 2001
 Invited participant to TEMPO (Testing Earth System Models with Paleoenvironmental Observations) meeting on climate reconstruction, Boulder, Colorado, July, 2001
 MESH meeting, June 2001, Washington DC at NSF
 Invited participant U.S. JGOFS Synthesis and Modeling Project (SMP) Workshop on Marine Calcification. June, 2001.
 Organizer, Post Cruise Meeting for ODP Leg 184, Beijing, PRC, May, 2001

- Invited participant in symposia on Human Dimensions and Natural Processes in Environmental Change The Institute of Earth Environments, Chinese Academy of Sciences, Xian P.R. China, May, 2001
- ODP Co-Chief Review Meeting, Washington D.C., April, 2001
- USSAC Meeting, Gainesville, Florida, January 2001
- Invited participant to EPILOG (Environmental Processes of the Ice Age: Land, Oceans, Glaciers) workshop on Ice Sheets and Sea Level of the Last Glacial Maximum: Timberline Oregon, October, 2000
- Participant in workshop on Stable Isotopes in Ecology, University of Utah, Salt Lake city, June 10-20, 2000
- Intergovernmental Oceanographic Commission, International GODAR Review Conference, NOAA, Silver Springs Md. The Importance of Global Oceanographic Databases for Paleoceanographic Research, 1999
- Invited Participant to COMPLEX meeting (Committee on multiple platform exploration), NSF-JOIDES, Vancouver, BC., 1999
- JGOFS Arabian Sea Workshop, Durham, NH, Seasonal variations of planktonic foraminifera during the monsoon, 1998
- PaleoModel Intercomparison Project, Livermore, Ca, Reconstruction of the Sea Surface Temperature at the Last Glacial Maximum, 1998
- Variability of the Austral-Asian Monsoon Workshop, St. Michael's Md., Paleoceanographic variability and evolution of the Asian Monsoon System, 1998
- Co-organizer and Participant, MESH Workshop on "Marine aspects of Earth System History (MESH) Proxy Development Workshop, 1995
- Participant, NAS/INQUA Workshop on drafting "The Earth's Dynamic Surface: Environmental Change and Society", 1994
- Invited speaker, JOIDES/JAMSTEC workshop "Ocean Drilling in the 21st Century- Scientific Visions and Technological Opportunities", Koyto, Japan
- Invited speaker, JAMSTEC workshop "Material Cycles in the Ocean", Yokosuka, Japan
- Participant, NSF Marine Earth System History Workshop, 1993
- JOI/USSAC Distinguished Lecture Series, 1992-93
- Co-organizer of conference, "Evolution of Upwelling Systems Since the Early Miocene," held at the London Geological Society, September 1990
- Member, COSOD (Conference on Scientific Ocean Drilling), Consultant to Working Group on Global Environmental Changes, 1986
- Chair, Kerguelen Working Group, Ocean Drilling Program, 1986
- Co-organizer of symposium, "Paleoceanography of Cenozoic Oceans," Second International Congress on Paleoceanography, WHOI, 1986
- Organizer of workshop on Future Scientific Drilling in the Indian Ocean held at Lamont-Doherty Geological Observatory, June 5-7, 1984.
- Organizer and Co-Chairman of symposium, "Paleoclimates," First International Conference on Paleoceanography, Zurich, Switzerland, 1983
- Organizer (with J. C. Duplessy) of a joint U.S.-France symposium, "Paleoclimatic Reconstruction of the Northern Atlantic and Indian Oceans and Adjacent Continents over the Past 500,000 Years," Gif-sur-Yvette, France, 1980
- Co-Chair of symposium "CLIMAP: Progress in Understanding Quaternary Climatic Change," Geological Society of America Annual Meeting, San Diego, CA, 1979

EDITORIAL ACTIVITIES

- Prell, W. L., Wang, P., Blum, P, and Rea, D. (Eds.), 2003, Proc. ODP, Sci. Results, 184, Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA

Clemens, S., Wang, P., and W. Prell, Preface, 2003, *Marine Geology*, V201, Special Issue on Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch Time Scales

Co-Chief Scientist and Editor for *Leg184, Initial Reports, Ocean Drilling Program*

Associate Editor, *Journal of Geophysical Research - Oceans*, AGU 1986-1989

Associate Editor, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 1986-1995

Co-Chief Scientist and Editor for *Leg 117, Ocean Drilling Program*

American Geophysical Union Editor's Citation for Excellence in Refereeing, 1990

Co-Editor, *Evolution of Upwelling Systems Since the Early Miocene*, 1991

Review approximately 10 papers and 20 proposals each year

ADVISORY ACTIVITIES

Member, AGU fellows selection committee, Paleoceanography/Paleoclimatology Focus Group, 2008, 2009, 2010, 2011

Appointed to Scientific Advisory Committee of the Rhode Island Bays, Rivers, and Watersheds Coordination Team, 2010-2012

Elected to Board of Directors, *Save The Bay*, 2009-current

Chair, *Save the Bay* Program and Policy Committee, 2007-current

Scientific Advisor to Save Bristol Harbor, ongoing

Member of the Asian Monsoon and Cenozoic Tectonic History Detailed Planning Group (DPG) appointed by the IODP Science Planning Committee (SPC), 2008

Member, *Ad hoc* committee to Columbia University Provost, Alan Brinkley, for the consideration of a senior tenure position in the Department of Earth and Environmental Sciences at Columbia University, 10/31/2006

Member, Woods Hole Oceanographic Institution, external tenure review committee 1/2006

Fellow, Cooperative Institute for Climate and Ocean Research, A Joint Institute of the Woods Hole Oceanographic Institution and the National Oceanic and Atmospheric Administration, 2000-

Chair, United States Science Advisory Committee (USSAC) to the JOI/United States Science Support Program of the Ocean Drilling Program, 2001-2004

Member, Committee of Visitors for NSF review of Marine Geosciences Section, June 2003

Member, external review committee for Duke University, Division of Earth and Ocean Sciences in the Nicholas School of the Environment and Earth Sciences, February 2003

Member, Advisory Council of the Department of Geological & Geophysical Sciences, Princeton University, 2000-

Member, Nominating Committee, AGU Oceans Section, 2001-2003

Member, MESH Steering Committee for NSF Marine Earth System History, 1993-2003

Member of Steering Committee of EPILOG (Environmental Processes of the Ice Age: Land, Ocean, & Glaciers) an international program to understand past climates, 1998-

Member of External Tenure Review Committee, 2000, Woods Hole Oceanographic Institution

Member of External Review Committee for the Graduate Program in the College of Atmospheric and Oceanic Sciences, Oregon State University, 1997

Member of Advisory Committee, Paleoclimate Modeling Intercomparison Project (PMIP), an international project endorsed by the International Geosphere-Biosphere Program and the World Climate Research Program, 1996-

Member of the Editorial Search Committee, American Geophysical Union, JGR-Oceans

Member of External Tenure Review Committee, 1997, 1998, 1999, Woods Hole Oceanographic Institute

Invited Member to NSF meeting on needs for an Ocean Data Assimilation Center as part of the World Ocean Circulation Experiment (WOCE), February 1997

Member, Advisory Council of the Department of Geological & Geophysical Sciences, Princeton University, 1995-1999
 Member, JOIDES-ODP Ocean History Panel, 1994-1997
 Member, MESH Steering Committee for NSF Marine Earth System History, 1993-
 Member, NAS/U.S. National Committee for INQUA (International Union for Quaternary Research), 1992-1196
 Member, NSF Review Panel, The Geologic Record of Global Change, 1990-1991
 Counselor for AMQUA, American Quaternary Association, elected 1990-1993
 Chair, Oversight Review Panel for NSF Ocean Drilling Program, 1989.
 Member, Ocean Sciences Board (NRC) Committee on Oceans' Role in Global Change, 1989-1993
 Liaison Member to Advisory Committee for Earth Sciences, NSF, 1988-1990
 Member, Advisory Committee for the Atmospheric Sciences, NSF, 1987-1990
 Member, Narragansett Bay Project, Scientific and Academic Advisory Committee, 1986
 Member, NOAA Review Panel, National Academy of Science, Ocean Studies Board, 1986.
 Member of Indian Ocean Panel, Ocean Drilling Program, 1983-1988
 Member, NSF Review Panel, JOI Proposal for Management of Ocean Drilling Program, 1984.
 Member, NSF Review Panel for Submarine Geology and Geophysics, Ocean Sciences Program, 1980-1982

(iii) SERVICE TO THE COMMUNITY

Appointed to the Scientific Advisory Committee of the Rhode Island Bays, Rivers, and Watersheds Coordination Team, 2010-2012

Elected to Board of Directors, *Save The Bay*, 2009-current

Chair, *Save the Bay* Program and Policy Committee, 2007-current

Scientific Advisor to Save Bristol Harbor, ongoing

CoastWeeks 2006: A Celebration of the Coast, 9/27/06, Dissolved Oxygen in Narragansett Bay: Status and Implications, Sponsored by: R.I. Coastal Resources Management Council Rhode Island Sea Grant College Program

Save the Bay, 6/07/06, Summary of Summer-Season Dissolved Oxygen in the Bottom Waters of Upper Narragansett Bay, The Insomniacs

Member Steering Committee of Runnins River Task Force 1995-

Participant in DEM study of Dissolved Oxygen in Narragansett Bay, 1999-

Advisor to Save The Bay, 1999-

Chair, Pastor/Staff Parish Relations committee, Barrington United Methodist Church

Participant in DEM dye study of flushing in the Runnins River, August, 1999

Appointed to Conservation Commission, Barrington, RI 1981-1988; Chair 1982-1986

Appointed to Planning Board of Barrington, RI 1988-1989

Barrington Youth Soccer Association, Coach

8. ACADEMIC HONORS

2002 Hanover College Alumni Achievement Award for distinguished professional service
 Profiled in *One Hundred Points of Light: A History of SCIENCE at Hanover College* by Stanley M. Totten, Hanover College, 325 p., 2007.

Inducted a Fellow of the *American Geophysical Union*, May 29, 2008 "For pioneering contributions to the understanding of paleomonsoons and glacial-interglacial climates using observations and models".

9. TEACHING/EDUCATIONAL ACTIVITY (over last 5 years)

Course offerings

2006-F	Geol. Sci. 111, Estuarine Oceanography	(11)
2007-S	Chair Duties	
2007-F	Geol. Sci. 111, Estuarine Oceanography	(4)
2008-S	Chair Duties	
2008-F	Sabbatical	
2009-S	Leave	
2009-F	Geol. Sci. 111, Estuarine Oceanography	(6)
2010-S	Geol. Sci. 1100, Global Descriptive Physical Oceanography	(8)
2010-F	Geol. Sci. 1110, Estuarine Oceanography	(7)
2011-S	Geol. Sci. 2920, Climate Change Scenarios for Southern New England	(8)
2011-F	Geol. Sci. 1110, Estuarine Oceanography	(8)
2011-F	Geol. Sci. 2920, Climate Change Scenarios for Southern New England	(6)
2012-S	Geol. Sci. 1100, Global Descriptive Physical Oceanography	(18)

Ph.D. THESIS SUPERVISION

- Cullen, J., 1984, Climatic variation in the northern Indian Ocean: Analysis of the distribution, geology, and preservation of planktonic foraminifera in Late Quaternary sediments, Brown University Ph.D. Thesis, 312p.
- Peterson, L., 1984, Late Quaternary deep-water paleoceanography of the eastern equatorial Indian Ocean: Evidence from benthic foraminifera, carbonate dissolution, and stable isotopes, Brown University Ph.D. Thesis, 429p
- Dowsett, H., 1988, A biochronological model for correlation of Pliocene marine sequences: Application of the graphic correlation method, Brown University Ph.D. Thesis, 315p
- Clemens, S., 1990, Quaternary variability of Indian Ocean monsoon winds and climate, Brown University Ph.D. Thesis, 317p
- Anderson, D., 1991, Foraminifer evidence of monsoon upwelling off Oman during Late Pleistocene, Brown University Ph.D. Thesis, 291p
- Farrell, J., 1991, Late Neogene paleoceanography of the central equatorial Pacific: Evidence from carbonate preservation and stable isotopes, Brown University Ph.D. Thesis, 508p
- Howard, W., 1992, Late Quaternary paleoceanography of the southern ocean, Brown University Ph.D. Thesis, 345p
- DuBois, Lisa, 1993, Glacial-Holocene Carbonate Preservation History from Equatorial Atlantic Sediment Cores: Paleoceanographic Implications, Brown University Ph.D. Thesis, 273p
- Chen, Jiajie, 1994, Benthic Foraminiferal Isotope Composition: Implications for late Neogene-Quaternary Paleoceanography of the Indian Ocean, , Brown University Ph.D. Thesis, 492p.
- Chen, Min-Te, 1994, Late Quaternary Paleoceanography of the Equatorial Indo-Pacific: A Quantitative Analysis Based on Marine Micropaleontological Data, , Brown University Ph.D. Thesis, 342p.
- Oslick, Jeffrey Sheldon, 1998, Reconstructing Hydrographic Gradients and the Carbon Isotopic Composition of Surface Waters using Multiple Species of Planktonic Foraminifera, Brown University Ph.D. Thesis, 210p.
- Trend Staid, Melissa Anne, 1999, Sea-Surface Temperature and Near-Surface Hydrology at the Last Glacial Maximum: A Reconstruction using the Modern Analog Technique, Brown University Ph.D. Thesis, 319p.
- McKenna, Vicki, Spring 2000, *Globoquadrina truncatulinoide* As An Indicator Of Change In The Permanent Thermocline Of The Glacial Arabian Sea, Brown University Ph.D.
- Donnelly, Jeffrey P., 2000, Sedimentary records of late Holocene salt marsh development, storms and sea levels in the northeastern United States, Brown University Ph.D.
- Zabielski, Victor, 2001, Influence of the intermediate waters on the modern and past circulation and ventilation of the northern Arabian Sea.

Currently serving on the following research/thesis committees:

Co-Advising Rocio Caballero-Gill, Jeff Salacup and serve on research/thesis committees of Bronwen Konecki, Jessica Rodysill, Kathleen Scanlon, and Elizabeth Thomas, Alexandrina Tzanova, and Rebecca Fahringer. I continue to serve as an outside committee member for **Christelle Balt's** PhD committee at the **Graduate School of Oceanography, URI.**

MASTER'S THESIS SUPERVISION

- 1980 Moll, J., Fluctuation in aridity and trade wind intensity as indicated by eolian material from deep-sea cores off northwestern Australia
- 1980 Peterson, L., Major change in Atlantic deep and bottom waters 700,000 years ago: Benthonic foraminiferal evidence from the South Atlantic
- 1982 Start, G., Isotopic and carbonate evidence for two climatic modes in the Quaternary
- 1982 Szumakow, L., Neogene radiolarian stratigraphy of the eastern equatorial Indian Ocean
- 1984 Marvil, R., Paleoceanographic evidence for an intensified Indian summer monsoon at 9,000 yr. BP
- 1985 DuBois, L., Effects of carbonate dissolution on the age structure of deep sea sediments
- 1985 Howard, W., Fluctuation of the subtropical convergence zone: A spectral analysis of carbonate budget and sea surface temperatures
- 1986 Farrell, J., Reconstruction of fluctuations in the Pacific carbonate dissolution gradient: A 4.0 million year record
- 1986 Clemens, S., Dry bulk density estimates from the southeast Indian Ocean sediments: Comparison of water loss and chloride-ion methods
- 1987 Breynaert, R., Paleoceanography of the Indonesian seas
- 1988 Barratt, N., Variability of sea surface temperature in the western Indian Ocean during the past 250,000 years
- 1989 Anderson, Estimates of sea surface temperature in the Coral Sea at the last Glacial Maximum
- 1989 Chen, Min-Te, Quantitative reconstruction of pacific sea surface temperature and salinity over the past 800,000 years: Comparison of Imbrie and Kipp method and modern analog technique
- 1990 Chen, Jiajie, Intermediate and deep water circulation in the northern Indian Ocean during the last Glacial Maximum
- 1993 McKinna, V., The Foraminifer Record at Site 847: Paleoceanographic Response to Late Pleistocene Climate Variability
- 1993 Gay, Paul, Results of CTD Measurements in Hundred Acre Cove, Barrington RI
- 1994 Anne, McKay, Variation of Upwelling on the Oman Margin, ODP Site 727, Arabian Sea
- 1994 Oslick, Jeff, Morphological and isotopic variations in *Globigerinoides ruber* from an Indian Ocean transect
- 1994 McDonough, Laurie, Test size in planktonic foraminifera: Correlation to sediment and water column characteristics in the Arabian Sea
- 1994 Trend, Melissa, Foraminiferal weight loss above the lysocline: dissolution on the Owen Ridge.
- 1995 Zabielski, Victor, Isotopic Evidence for the Stability of ODP Site 728 (Oman margin)
- 2006 Rincon, Carlos, Surface Sediment Physical and Chemical Gradients of Upper Narragansett Bay, Rhode Island: A Close Look at Modern Metal Distributions, MSc thesis, 169 p.
- 2007-2008 Shane Schoepfler, *Seasonal Cycling of Nitrogen Isotopes in Narragansett Bay*, co-advisor Mark Altabet, SMAST, MA

2007 Committee member and reader, Merrielle Macleod, Environmental Studies Masters, *Potential Offshore Aquaculture Siting off Massachusetts: A Geographic Information Systems (GIS) analysis using the examples of Cod (*Gadhus morhua*) and Mussels (*Mytilus edulis*)*

Shane Schoepfer, 2008-2009, Stable isotopes of inorganic nitrogen nutrients in Narragansett Bay, 37p (concurrent MS-BSci)

UNDERGRADUATE INDEPENDENT STUDY SUPERVISION

Schoen, C., 1976, Coiling directions of *Pulleniatina obliquiloculata* in the Indian Ocean

Abdo, R., 1978, A biometric analysis of morphological variation in *Globogrina bulloides* in the Indian Ocean

Kenyon, K., 1978, Faunal analysis of the eastern Indian Ocean

Leventer, A., 1979, A model for interpreting the distribution of *G. Glutinata* in the Atlantic and Indian Oceans

Szporn, K., 1979, The biogeography of *Globigerinoides ruber*

Hogeman, G., 1979, Control of primary and secondary productivity off the coast of Long Island

Lehr, A., 1979, Seasonality as recorded in planktonic foraminifera

Gorski, R., 1980, The morphology of *G. bulloides* as an indication of upwelling in the Arabian Sea

Swann, D., 1981, Vertical intertidal distribution of the ribbed mussel *Geukensia demissa* in a RI salt marsh

Howard, W., 1982, A comparison of radiolarian and foraminiferal paleoecology in the southern Indian Ocean: New evidence for the interhemispheric timing of climatic change

Church, S., 1982, The distribution of physical properties in the estuarine environment: Salinity, temperature, and density in the Barrington River estuary

Jay, D., 1982, The glacial geology of Barrington, Rhode Island

Jeffer, D., 1982, A box model of the hydrology of Barrington, Rhode Island

O'Toole, D., 1982, Growth of a salt marsh: One Hundred Acre Cove, Barrington, Rhode Island

Reynolds, M., 1982, The oceanography of One Hundred Acre Cove, Barrington, Rhode Island

Poore, D., 1982, Shellfish survey and management in One Hundred Acre Cove, Barrington, RI

Raymo, M., 1982, *Uvigerina* abundances in V34-88 and the relationship to monsoonal upwelling in the western Arabian Sea

Bellis, B., 1983, The determination of hydraulic conductivity for different sediment size groups of the Pawcatuck River basin aquifer

Delhagen, E., 1983, Sub-surface morphology and growth of the One Hundred Acre cove salt marsh

Feller, A., 1983, The distribution of $d^{13}C$ in the western Indian Ocean: Interpretations and implications

Hendrickson, A., 1983, The chloride content of groundwater in Barrington, Rhode Island, as an indication of salt water intrusion

Mountain, S., 1983, Geologic and hydraulic considerations for land fill management in sighting

Payne, G., 1983, The seasonal succession of phytoplankton and zooplankton in Narragansett Bay and One Hundred Acre Cove

Frost, D., 1984, The oceanography and geology of a coastal lagoon, Little Compton, RI

Hautala, S., 1984, Analysis and modeling of coastal upwelling in the western Arabian Sea

Roesler, C. and Zackin, R., 1985, Vertical zonation patterns of benthonic marsh foraminifera: High resolution indicators of Holocene sea level change

Yager, P., 1985, Sediment distribution in One Hundred Acre Cove and its use as a key to estuarine circulation and sediment transport

Manley, W., 1985, The stratigraphy and development of a Rhode Island salt marsh

Hastings, N., 1987, Oceanography of the Barrington estuary of the upper Narragansett Bay - Fall 1986 to Spring 1987

- Bratton, J., 1987, Lead concentration analysis of the Runnins River, Seekonk, MA
- Ortiz, J., 1988, Size variation in populations of foraminifera and their paleoceanographic significance
- Pendelton, R., 1988, Groundwater hydrology of Princes Pond area, Barrington, RI
- Woods, P., 1988, Carbonate dissolution in foraminifera
- Kohfeld, K.E., 1990, A study of the influences of climate variability at Site V28-344
- Blodgett, T., 1991, A water budget and the residence Time for Tiffany Pond, Barrington, RI
- Cook, J., 1993, Monsoonal wind fluctuations in the western Arabian Sea during the late Holocene, as interpreted from planktonic foraminiferal faunal analyses of box core RC27-27 and Oman Margin core tops.
- Zani, M., 1993, Sea surface temperatures and biogenic productivity in the Gulf of California: Insights from the AVHRR.
- Starr, C., 1993, Sediment delivery to the northern Indian Ocean: ODP Sites 717, 718, 719, 758.
- Fisher, Bradford, 1995, Phytoplankton Dynamics at White Church Bridge, Barrington, Rhode Island: Physical and Chemical Determinants (Joint Independent Study)
- Nelson, Joshua, 1995, Phytoplankton Dynamics at White Church Bridge, Barrington, Rhode Island: Physical and Chemical Determinants (Joint Independent Study)
- Strauss, Charles, 1995, Phytoplankton Dynamics at White Church Bridge, Barrington, Rhode Island: Physical and Chemical Determinants (Joint Independent Study)
- Schlopler, David, 1995, Trace Metal Concentrations in the Runnins River and Hundred Acre Cove,
- Appleyard, Craig, 1995, Morphological Variation of *Globerigina bulloides* in the Indian Ocean
- Jackson, Kate, 1996, The Stratigraphic Distribution of Metals in Salt Marsh Pond and Peat Cores.
- Petras, Ross, 1998, Tidal control of Flushing Time in a Coastal Pond.
- Garrity, Nick, 1999 UTRA, Tidal Induced Anoxia in a Coastal Pond- Physical Circulation and Water Budget
- Steen, Andrew, 1999 UTRA, Tidal Induced Anoxia in a coastal Pond- Nutrient Budgets.
- Garrity, Nick, 2000, Tidal Induced Anoxia in a Coastal Pond- Physical Circulation and Water Budget
- Harwood, Jessica, 2002, Degradation of the Coral Reef Ecosystem in the Lagoon of Ifaty, Madagascar
- Saarman, Emily, 2002, Hypoxic Conditions in Narragansett Bay during the Summer of 2001
- Hale, Sarah, 2002, Tidal-scale variability of coliform bacteria in the Barrington River and Hundred Acre Cove: How Much Upstream Transport?
- Larisa Korhun, 2004, Stratification and Eutrophication in Narragansett Bay
- Carlos Rincon, 2005 Environmental Geochemistry of Hundred Acre Cove Estuary
- Lindsay McKenna, 2007, *Coastal Dynamics of Annawamscutt Beach*
- Elizabeth Crockford, 2007, Spatial and Temporal Distribution of Chlorophyll in Narragansett Bay
- Shane Schoepfer, 2008-2009, Stable isotopes of inorganic nitrogen nutrients in Narragansett Bay, 37p. (concurrent MS-BSci)
- David Koweek, 2008-2009, Royce Fellow and Honors, Application of the Chlorins Productivity Proxy Towards a Productivity history of Narragansett Bay, 34p.
- Jesse Farmer, 2008-2009, Honors, Evaluating the Use of Organic Paleotemperature Proxies in Estuaries: Application of Uk37 and TEX86 to Narragansett Bay, Rhode Island, 70p.
- Axex Chuman, 2008-2009, A Sensitivity Analysis of Bristol Harbor: Circulation and Sediment Patterns, 64p.
- Tsveta Krumova, 2008, UTRA, A history of metal deposition to the Narragansett Bay documented by sediment cores
- Sam Woolford, 2009, The Application of Stable Isotopes to Assess Effect Of Hypoxia On Summer Growth Of Quahogs In Narragansett Bay.

Lolly Lim, 2010, Impacts of a 500-year flood on Narragansett Bay: a preliminary effort to understand the distribution of sewage contaminants and points of greatest contamination by the mCP method

Devon Cuprey, 2010-2011, Brown Environmental Fellow, "Narragansett Bay Eutrophication: Understanding the Bay's History of Primary Production through Sediment Core Analysis"

Lolly Lim, 2011, The distribution of diatoms in Narragansett Bay Sediments

Katey Lesneski, 2011-2012, A Spatial and Temporal Analysis of Metals in Narragansett Bay Sediments, Royce Fellow

Advised two undergraduate summer students working on various aspects of Narragansett Bay history and oceanography

2/12