



NEWSLETTER

Volume 16

Number 1

January 1975

NEW STAFF COMMITTEE MEMBERS ELECTED

The four new members of the Staff Committee elected for 1975-76 are Dean Bumpus, Al Driscoll, Peter Wiebe, and Whitey Witzell. Out of an electorate of 425, 305 valid ballots were returned for a 72 percent voter turnout. (Last year, 63 percent voted.)

Those continuing their two-year terms through 1975 are Betty Bunce, Gerry Metcalf, Tom Sanford, and Freddie Valois.

Officers elected by the Staff Committee for 1975 are Dean Bumpus, Chairman and Gerry Metcalf, Secretary.

TRUSTEES, CORPORATION MEET IN BOSTON

The joint mid-winter meeting of the Institution Trustees and Members of the Corporation was held in Boston at the American Meteorological Society January 15 with 54 attending. Associate Director for Research Ferris Webster summarized the recommendations of the 1974 Visiting Committees, Chairman Charles Adams reviewed the actions of the Executive Committee, President Paul Fye reviewed budget projections and activities for 1975, and Geology and Geophysics Chairman Jim Heitzler discussed the results of Project FAMOUS.



As the KNORR approached the Woods Hole pier December 19 following a buoy cruise, her Christmas lights came on, Christmas music wafted across the water, and the Spritely Old Elf himself, in the person of Bernie Kilbreth who was last seen as the Easter Bunny, appeared on deck with a sackful of goodies. Here Cecelia Fuglister gets her share of the candy bars.

*** OCEANOGRAPHIC SHIP NOTES ***

ATLANTIS II returned to sea January 4 for a chemistry cruise beginning in the Gulf of Maine. A few days later, word came that the Nova University R/V GULF STREAM was missing in the Gulf of Maine, and on January 9 the A-II joined the search under Coast Guard instructions. Former W.H.O.I. staff member Bill Richardson, head of the Nova University oceanographic laboratory, was aboard the GULF STREAM with four other men. The body of one of the men, two life jackets, and three life rings were the only traces of the vessel recovered in the extensive week-long, 77,000-square-mile search effort, which was followed closely by Woods Hole and other oceanographers familiar with ocean currents and with the area. An information center was set up in the executive conference room at the Clark Building and manned by friends and colleagues of Bill Richardson, who is described as one of the country's foremost oceanographers. The GULF STREAM was on a mission to track drift buoys which Richardson had designed for use in GARP and which were being tested in the severe weather conditions presented by the Gulf of Maine at this season. The GULF STREAM was working out of the Bigelow Laboratory for Ocean Sciences in Boothbay Harbor, Maine, where a memorial service was held January 17 for the lost men.

After the search, the A-II went through the Cape Cod Canal with San Juan as destination. On the cruise schedule were hydrographic and CTD stations, large-volume water sample and coring stations for measurement of fallout radioactivity and PCB concentrations, plankton tows, and nephelometer stations. During February the A-II will be working in the area of the Cariaco Trench continuing part of the program from the first leg and adding bottle sampling and net tows for collection of nitrogen-fixing algae, special water stations for measurement of methane concentrations, SCUBA collection of invertebrates, and coring for low-oxygen concentration benthic community structure studies and studies of nutrient levels in pore waters (water squeezed from cores).

CHAIN left Woods Hole January 20 for the Mediterranean with surface phytoplankton sampling and hourly XBT sampling, the latter for the POLYMODE project, planned for the trip across the Atlantic. After calling in Gibraltar early in February, the ship will work on the Mediterranean side of Gibraltar monitoring water flow to determine whether deep water is moving up and over the sill in the Strait of Gibraltar. Later in February, CHAIN will proceed to Alexandria and then to the Nile delta and the Nile cone to conduct geological and geophysical studies.

CHAIN Captain Mike Palmieri missed the first part of the cruise recovering from a nasty encounter with a wrench which was being used to adjust the ratchet on the lifeboat winch. The wrench flew off the winch, bounced off the davit, and hit him on the side of the face, breaking his cheekbone and mandating a few days in the hospital. He planned to rejoin the ship in Alexandria. Dave Casiles was relieving master.

The KNORR's 1975 schedule began with a trip to a New York shipyard for replacement of blade shaft seals on four of the five blades on the after cycloid (the one replaced at dockside in Woods Hole was in fine shape).

The KNORR departed Woods Hole for an integrated program of biological and physical oceanography January 24 for a week-long investigation of continental shelf processes — shelf-edge exchange and coastal boundary region processes and their consequent biological effects. The program includes water column sampling and measuring for salinity, temperature, pH, dissolved oxygen, and nutrient and chlorophyll analysis, as well as ichthyoplankton and zooplankton surveys, primary productivity measurements, and current measurements. W.H.O.I. scientists are working on this cruise with investigators from Brookhaven National Laboratory, the State University of New York, MIT, the University of Washington, National Marine Fishery Service (La Jolla), Fairfield University, and CBI.

Work on OCEANUS is proceeding in Sturgeon Bay, Wisconsin, following launch of the ship last month. The University of Rhode Island has announced a contract with Peterson Ship Builders to construct a third ship on the design of OCEANUS to replace URI's 30-year-old TRIDENT. The National Science Foundation is funding the ship, which is expected to be delivered in the spring of 1977.

FUNDING ANNOUNCEMENTS

Recent grants to the Institution include:

- \$102,600 to Derek Spencer and Peter Brewer from the National Science Foundation (NSF) for "Particulate Matter in the Atlantic and Pacific Oceans";
- \$493,417 to Earl Hays from the Office of Naval Research (ONR) for "Coherence Studies";
- \$51,800 to Stan Watson from the Atomic Energy Commission for "Marine Microbiology";
- \$46,054 to Stan Watson from the Department of Health, Education, and Welfare for "Structure and Functions of Membranes in Nitrifying Bacteria";
- \$35,065 to Gabe Csanady from the National Oceanic and Atmospheric Administration for "Coastal Circulation in the Great Lakes";
- \$60,000 to George Harvey and Tony Remsen from the Rockefeller Foundation for "The Role of Suspended Particles and Microorganisms in the Transfer and Concentration of Environmental Pollution";
- \$40,000 to Bob Morse from the American Petroleum Institute for "Commercial Fishing and Offshore Petroleum Industries in the Northeastern U.S. — An Interaction Analysis";

- \$37,600 to Geoff Thompson and Bill Bryan for "Petrological and Geochemical Investigations of Sea Floor Basalt and Basement Rock Obtained in the JOIDES Program";
- \$2,400,000 to Ferris Webster from NSF for "Ship Operations Support";
- \$180,800 to Jim Luyten from NSF for "Effects of the Gulf Stream Meandering on Low-Frequency Variability of the Currents Along the Continental Rise";
- \$53,000 to Dave Johnson from NSF for "Sediments of the Rio Grande Rise and Vema Channel — Southwest Atlantic Ocean";
- \$16,700 to Charlie Hollister from NSF for "Near Bottom Investigation of Abyssal Mud Waves on the Bahama Outer Ridge";
- \$11,100 to Dave Johnson from NSF for "Radiolarian Biostratigraphy and Paleoclimatology in the Equatorial Indian and Pacific Oceans";
- \$27,200 to Dave Johnson from NSF for "Sea Floor Samples Laboratory";
- \$62,000 to Bill Jenkins from NSF for "Application of Tritium and Helium-3 Data to Problems of Circulation in the North Atlantic Ocean";
- \$5,900 to Rudy Scheltema from NSF for "Genetic Variation in Relation to Dispersal in Three Species of *Crepidula* (Gastropoda)" (doctoral dissertation of Alison Ament);
- \$11,300 to Peter Brewer from NSF for "A Study of Saturation Anomalies in Near-Surface Oceanic Methane Distributions" (doctoral dissertation of Mary Scranton);
- \$207,700 to Phil Richardson from NSF for "Cyclonic Gulf Stream Rings in the Sargasso Sea" (part of POLYMODE);
- \$1,100 to Bob Gagosian from NSF for "Marine Geochemistry of Steroids";
- \$20,000 to John Teal from the Laurel Foundation for "Salt Marsh Studies";
- \$18,000 to Gabe Csanady from the Brookhaven National Laboratory for "Coastal Boundary Layer Transect (COBOLT) Experiment";
- 63,000 Egyptian pounds (about \$113,391) to Dave Ross from NSF for "A Geological and Geophysical Study of the Eastern Mediterranean".

JENKINS IS NEW ASSISTANT SCIENTIST

Bill Jenkins is a new Assistant Scientist in the Chemistry Department. A 1974 Ph.D. graduate of McMaster University in Hamilton, Ontario, Bill also holds a bachelor's degree from McMaster.

Using tritium's radioactive decay to helium-3 with a half-life of 12.26 years, Bill and his McMaster advisor, Brian Clark, developed a method for radioactive dating of water in a fashion analogous to carbon-14 dating of archaeological artifacts, but on a much shorter time scale. Bill's thesis work was in this area, and he is expanding on it here with mass spectrometric measurement of tritium and dissolved helium isotopes in seawater.



Christmas Party

The annual W.H.O.I. Christmas party was held at the MBL dining hall on Friday, December 20. About 450 employees and guests enjoyed a buffet supper, dancing, and socializing until the wee hours. Many thanks are due the Graded and Marine Personnel Committee for arranging the party and to everyone else who helped, and also to Santa Claus, who appeared in Bob Frazel's combat boots.



NINE HOLIDAYS TO GO IN 1975

The following holidays will be observed by the Institution during 1975:

- February 17 (Monday) George Washington's Birthday
- April 21 (Monday) Patriots' Day
- May 26 (Monday) Memorial Day
- July 4 (Friday) Independence Day
- September 1 (Monday) Labor Day
- October 13 (Monday) Columbus Day
- November 11 (Tuesday) Veterans' Day
- November 27 (Thursday) Thanksgiving
- December 25 (Thursday) Christmas Day

printed up calendars with these dates in red are available from the stockroom



NOTICES

The new composition of the Institution *Recreation Committee* includes Carl Bowin, John Burke (chairman), Hovey Clifford, Ed Denton, Marge Zemanovic and Bernie Zentz (ex-officio).

* * *

The Clark Laboratory extension of Endeavour House, which is known as the *Clark Buttery*, is open daily from 10:00 to about 1:15 for morning coffee and lunch. It can be found in the lounge at the bottom of the main stairway.

* * *

Photography by Alan Perlman and woodworking by Jeff Ryther and Grafton Briggs will be on display at *Endeavour House* from January 25 to February 8. An exhibit of illustrations by Molly Bang will follow beginning in mid-February.

* * *

The Woods Hole Public Library announces reprinting of two *historic maps* from the library collection. One is a view from approximately Buzzards Bay Avenue south across Woods Hole to Vineyard Sound and the Elizabeth Islands. It was first published by R. L. Dickinson in 1925. The other shows a bird's eye view from Nonamesset Island towards Woods Hole. It was first published in 1887 by G. B. Walker & Co., Boston. Both identify buildings by letters. The maps are available for two dollars plus tax from the Woods Hole Public Library (3:00 to 5:00 p.m. Monday through Saturday and Wednesday evening 7:00 to 9:00 p.m.) and from the MBL library 8:00 to 5:00 daily.

* * *

Employees are asked to note that the Institution does not close because of *inclement weather*. Supervisors are responsible for arranging flexibility of hours for anyone who may have difficulty getting to work in bad weather.

* * *

Woods Hole Bridge Tender Tiny Marchisin has asked us to request that anyone who receives a 10-cent check from the *Reader's Digest* sweepstakes deposit the check in a box in the bridge tender's shack rather than cashing it. At the Woods Hole Festival in the spring, a drawing will be held, and 60 percent of the checks will go to the Community Hall fund and the other 40 percent to the person whose check is drawn. Good way to help support Community Hall.

* * *

A local team of REACT (Radio Emergency Associated Citizens Teams) has been formed to cover the area of Falmouth, Bourne, Sandwich, Mashpee, Cotuit, and Santuit. REACT is a nation-wide organization of some 1,500 volunteer groups who monitor *Emergency Citizens Band Channel 9* to provide local two-way radio communication for emergency response. Channel 9 is monitored locally at all times to respond to any Citizens Band request for aid by summoning police or other aid appropriate to the situation. Anyone with a citizens two-way radio can participate in the service. Wally Bourne in Receiving (ext. 412) is a participant and would be glad to answer any questions.

* * *

The Computer Center is desperate for return of copies of the "red book" entitled *Handbook for Computer Users*. Anyone who is not using his or who can share with someone else nearby is asked to return the book, as there are at present none to hand out to new users. Please return them to Emily Evans, Swift House.

* * *

The *Weekly Calendar* can be used for brief notices that need quick dissemination. The Calendar deadline is Thursday morning for late Friday distribution of the following week's schedule. Contact Nancy Green, ext. 270.

* * *

Jack Whitehead was recently the surprise recipient of a bottle of wine and a special certificate from the *MBL Library* staff — it just happened to be his request that was being processed on the library Xerox 2400 when the number counter showed one million copies. Librarian Jane Fessenden says the machine is eight years old and is one of three machines the library currently has in use.

* * *

Purchasing asks (again) that location be indicated after the requisitioner's name on *purchase order requisition forms*. With all the moving about, the yellow originator copies often go astray because the proper address has not been indicated. REMEMBER: under "Requisitioned by", put your name AND location.

* * *

In response to many requests especially from W.H.O.I. personnel, the Woods Hole Library will be open lunch hours (12:00 - 1:30) on Tuesdays and Wednesdays for the winter season starting now.

If demand warrants it, the Library Board will consider making lunch hour openings a regular feature of the Library's year-round schedule.

* * *

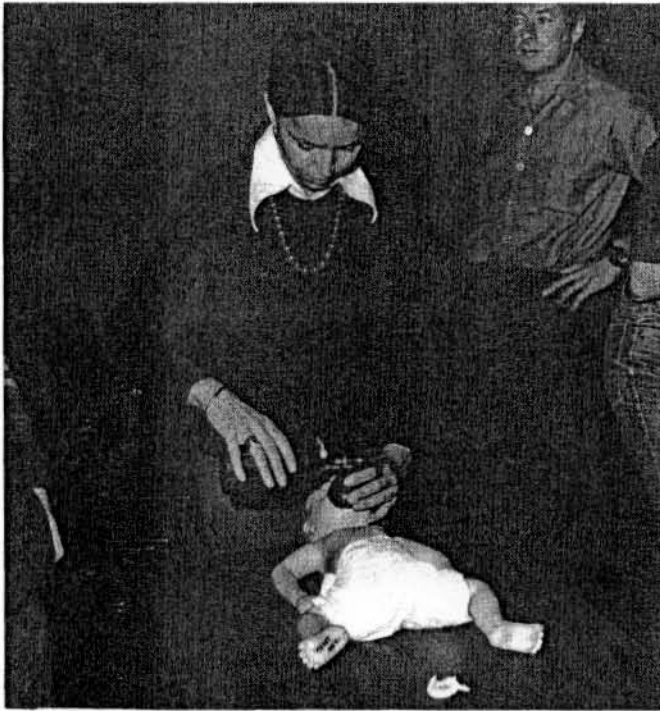
UNITED FUND WRAP-UP FROM CHAIRMAN

Again, I wish to thank all W.H.O.I. employees for their donations toward the Cape Cod United Fund. Even with our economic situation, I am proud to say that W.H.O.I. contributed \$7,342.88 to the 1974 drive. [This is \$807 less than last year.] Many thanks for your contributions.

Nat Corwin
Chairman

The *Newsletter* is published by the Woods Hole Oceanographic Institution for its employees. Notes, notices, and any items of interest to the Oceanographic community are welcomed by Editor Vicky Briscoe, office in the Coop, or phone 252.

* * *



Edith Ross

CARDIOPULMONARY RESUSCITATION COURSE HELD AT INSTITUTION

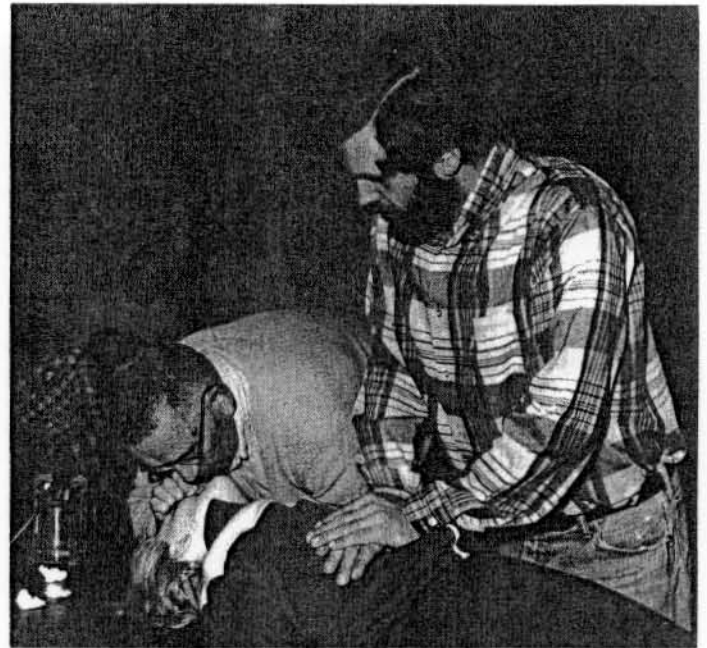
A training course in cardiopulmonary resuscitation was sponsored by the Institution Safety Office in mid-December. The six-hour course, which was conducted by Instructor Robert Foley of the local chapter of the American Heart Association, included films, slides, and demonstrations of methods of mouth-to-mouth resuscitation and external cardiac massage. In order to receive certification cards, participants passed a written test and demonstrated ability to apply the methods taught on a recording mannequin.

The cards were issued to Dave Casiles, Hovey Clifford, Clay Collins, John Connell, Brenda Dempsey, Jack Donnelly, Cy Fennelly, Steve Ferreira, Carlton Grant, Channing Hilliard, Susan Johnson, George Knapp, Charlie Olson, Mike Palmieri, John Pike, Edith Ross, Bill Steinhauer, Val Wilson, and Chet Woodward.

Anyone who may be interested in participating in a similar course in the future or in a first-aid course is asked to contact Safety Coordinator Cy Fennelly, ext. 451.

VANDIVER IS PROGRAM'S 35TH GRADUATE

Kim Vandiver brought the roster of W.H.O.I.-M.I.T. Joint Program graduates to 35 when he successfully defended his doctoral thesis December 12. His topic was "Structural Evaluation of Fixed Offshore Platforms".



John Pike and Steve Boyd

BIOLOGY STAFF MEMBERS GIVE SEMINARS AT YALE

Yale students are being treated this semester to a series of seminars by members of the Oceanographic Biology Department. Lecturers and their subjects for the weekly seminars are:

- Holger Jannasch on "Bacterial Activities in Offshore Water"
- Ralph Vaccaro on "Heterotrophic Microbial Behavior in Stressed Marine Ecosystems"
- Stan Watson on "Evolution of Membranes in Prokaryotic Cells"
- Ed Carpenter on "Nitrogen Fixation by Marine Organisms, *Trichodesmium* et al."
- Bob Guillard on "The Influence of Environmental Factors other than Nutrient Availability on Phytoplankton Growth"
- John Ryther on "Eutrophication in Marine Environments"
- Ken Tenore on "Biotic Pathways and Dynamics of Detrital Food Chains"
- John Teal on "Experimental Ecosystem Ecology"
- Peter Wiebe on "Gulf Stream Rings: Large Scale Interaction Sites for Pelagic Communities"
- Rudy Scheltema on "The Evolutionary Significance of Larval Dispersal in Benthic Marine Invertebrates"
- Howie Sanders on "Oil Pollution Studies: Challenges and Problems Inherent to Relevant Science"
- George Grice on "Seasonality of Temperate Neritic Zooplankton"
- Dick Haedrich on "Zoogeography of Mid-Water Fishes".

NEW FACES

JANUARY 1975



Arthur Baggeroer
Guest Investigator
G & G/Ken Prada
Big G-9, ext. 225



Jonathan Goyert
Research Assistant
Bio/Ken Tenore
Clark 242, ext. 571



William Ostrom
Laboratory Assistant
PO/Bob Heinmiller
Smith 116A, ext. 485



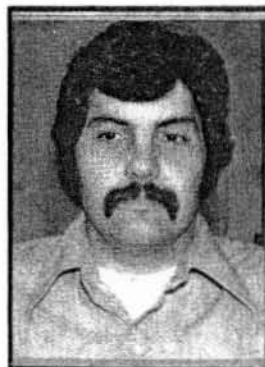
William Jenkins
Assistant Scientist
Chem/Derek Spencer
Clark 454, ext. 554



Stuart Kupferman
Guest Investigator
Chem/Vaughan Bowen
Red. 3-42, ext. 454



T. M. Parchure
Special Student
OE/Nan Panicker
Blake 111, ext. 417



James Payne
Postdoctoral Scholar
Chem/George Harvey
Red. 3-58, ext. 489



Margaret Sulanowski
Research Assistant
Chem/Geoff Thompson
Red. 3-40, ext. 346



Daniel Guevel
Guest Investigator
PO/Bill Schmitz
Clark 306A, ext. 535



Brent Spooner
Accountant
Admin/George Conway
Challenger, ext. 363



George Shor
Guest Investigator
G&G/Jim Heirtzler
Clark 248, ext. 574



James Valdes
Research Assistant
PO/Jerry Dean
Smith 306, ext. 240