



April 1983

NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION



Hovey "Karate" Clifford prepares to shuck 5,496 mussels for the Mussel Watch project's inter-calibration experiment. Hovey is a research associate in the Chemistry Department.

ONR SITE REVIEW TO BE HELD MAY 16-19

The annual ONR site review will be held May 16-19 in Clark 507.

OIP MEETING PLANNED APRIL 27-28

The semi-annual meeting for the 13 members of the Institution's Ocean Industry Program (OIP) will be held April 27 and 28. Meeting activities will be held in Clark Laboratory April 27 and in Smith Laboratory April 28.

OCEANUS MAGAZINE SURVEYS EMPLOYEES ON PAYING FOR A SUBSCRIPTION

Due to rising costs in printing and handling of the Institution's quarterly publication, *Oceanus*, WHOI employees are being asked to pay \$5 (\$1.25 per issue) if they wish to continue to receive the publication. The Institution will subsidize the balance of the subscription.

The magazine has been distributed free to employees for 30 years. Some 500 copies are now being distributed internally. Costs of producing the magazine have risen in recent years, and the approximately 12,000 outside subscribers now pay \$20 per year. The \$5 fee for interested employees will help defray the rising printing and handling costs.

A survey sheet has been sent to employees now receiving the magazine. If you receive the magazine and do not respond by May 15, your name will be dropped from the general distribution list for the summer issue. Forms (checks are to be made payable to WHOI) are to be returned to Paul Ryan, Co-op, before May 15.

INSTITUTION'S TELECOMMUNICATIONS CAPABILITY INCREASED

During the past few months, there has been an increase in the number and duration of telephone calls on the Institution's intrastate WATS circuits. These lines are accessed by code 89.

According to Jim Mitchell of Facilities, the call duration increase is due in part to the increased use of Telemail and similar services. As a result, more attempted calls are being placed in queue and remaining in queue for a longer time before ring back occurs and you can place your call.

Jim reports that two additional circuits have just been installed for the Massachusetts WATS service (now served by seven lines). These new circuits should alleviate the frequency and duration of queues.

OCEANOGRAPHIC SHIP NOTES

ALVIN remains in the Iselin high bay undergoing annual overhaul and conversion for the new hoist system on ATLANTIS II.

ATLANTIS II remains at pierside in Woods Hole undergoing conversion for ALVIN operations and continued mid-life refitting and overhauling.

KNORR returned to Woods Hole April 8 from a New Jersey shipyard, where she spent several weeks getting the hull painted and some routine maintenance done. KNORR is scheduled to depart April 15 on Voyage #101 for geological studies in the North Atlantic as part of the HEBBLE (High Energy Benthic Boundary Layer Experiment) project. The ship will return to Woods Hole April 25 and depart April 30 for other geological studies in the North Atlantic, returning to Woods Hole May 31.

OCEANUS departed Recife, Brazil, April 10 on Leg V of extended Voyage #133. Physical oceanographic studies in this survey of the Brazil Current will include XBT sections and Pegasus Profiler stations. OCEANUS is due back at Recife April 26 and will depart again April 30 for further physical oceanographic studies off the South American coast and enroute to Woods Hole. The ship is scheduled to return to Woods Hole May 28 after a four-month absence.

GEOLOGICAL TIMETABLE WALL CHART FOR SALE

The wall chart, "The Geological Timetable" (third edition), compiled by F.W.B. van Eysmaga and published by Elsevier, is available in the Office of the Research Librarian, Clark 135A, for \$4.15 per copy.

JELLYFISH POSTER ON SALE

Copies of the color poster of the jellyfish Geryonia proboscidalis (photo by Larry Madin) are for sale in the Information Office, Co-op. The poster costs \$3.00 (mailing tube is \$0.50).



Chief pilot Ralph Hollis (on box in center) explains the ALVIN launch system aboard LULU to members of the Naval War College's staff course for foreign naval officers during the group's visit to WHOI March 1. The college routinely brings its two classes each year to the institution to hear short lectures on current research projects. Photo by Shelley Lauzon.

WHOI WOMEN PARTICIPATE IN CAREER PROGRAM FOR LOCAL HIGH SCHOOL STUDENTS

Approximately 60 female high school students from Falmouth High School and Falmouth Academy attended a career workshop, "Expand Your Horizons," March 26 at Falmouth High School.

The workshop was organized by Beth Schwarzman of the U.S. Geological Survey and Carolyn Miller, WHOI's affirmative action administrator. It was one of more than 40 similar workshops held throughout the country to expose female high school students to possible career opportunities in science and mathematics. Students were able to speak with women pursuing science or math careers and participate in hands-on demonstrations with computers, graphic equipment, and other items used in these fields.

A number of female members of the WHOI staff participated, as did staff from USGS, the Fisheries, MBL, SEA and other local firms. The workshop was a success, and those organizing it hope to make it an annual affair in Falmouth.

WHOI SAFETY: FILTER-TYPE SMOKE MASKS

Safety Officer Eric Spencer warns us that some of the fire escape devices such as filter-type smoke masks being offered to the public may not be very safe.

According to an article in the March 1983 issue of Fire Journal, these filter-type smoke masks offer no protection against the oxygen deficiency common during structural fires. The masks vary widely in their ability to neutralize toxic products of combustion. Prior training and supervision in use of the masks is essential, since untrained individuals can waste critical time reading instructions during a fire.

The masks lack a service life indicator that the average potential user can easily recognize. Trained firefighters in the U.S. and abroad are not permitted to use filter masks because the user cannot determine when it is and is not safe to use them.

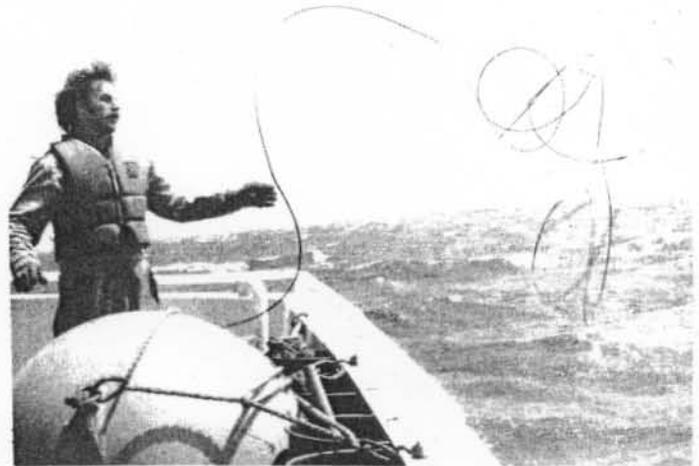
The editorial also notes that the filter-type masks are not self-contained breathing apparatus and therefore not considered suitable respiratory protection according to Occupational Safety and Health Administration (OSHA) regulations. Other safety organizations have not certified any personal filter-type masks for protection against toxic gases or oxygen deficiency in fires. The masks are not recommended for use in special risk situations that call for an "escape mask" as a vital part of a fire emergency evacuation plan.

Eric notes that some travel agencies are offering the mask as part of a tour package.



WHERE DID IT GO??? Joe Poirier, Jerry Dean and Dave Simoneau (left to right) during mooring work last fall off the California coast for the Coastal Ocean Dynamics Experiment (CODE). Photo by Carol Mills.

Below: Dick Limeburner really wasn't performing tricks with the wire. Photo by Dave Simoneau.



WHOI EMPLOYEES OFFERED DISCOUNT AT BOSTON COMPUTER STORE

Computerland of Boston, which has stores in Boston, Wellesley, Reading and Randolph, is offering a 15% discount to WHOI employees who purchase computers or computer equipment from the chain.

The firm has a product line of some 3,000 hardware, software and computer-related items and carries desktop models like IBM's personal computer, Digital's new Rainbow, and the Apple line, as well as portable models like the IBM-compatible

Compaq and the Osborne. Training information and computer publications are also stocked.

Computerland stores are located at 60 Congress St., Boston; 214 Worcester St., Wellesley; 343 Main Street, Reading; and 1395 North Main St., Randolph.

To take advantage of the discount program, contact Jeff Wood at 986-7017.

CLARK 1 LIBRARY READING ROOM OPEN

The Office of the Research Librarian has expanded its facilities in Clark 1 and has opened a reading room in renovated space formerly occupied by the Buttery (now at Fenno House).

According to Carolyn Winn, research librarian, the reading room's main emphasis is a book collection for students. Basic texts, classic works and reference texts are stocked, and the collection will be expanded in the future. The reading room is still being organized, and an open house is planned in the near future.

The reading room will also stock a few journals (personal copies given to the reading room as gifts). Copies of the MBL Library catalog and the Scripps Library catalog in book form are also available through the Office of the Research Librarian, which is a link to the MBL Library. The MBL Library is jointly operated and funded by WHOI and MBL.

The Office of the Research Librarian at Clark also provides computer searches, answers reference questions, and responds to inter-library loan requests. In addition to Research Librarian Carolyn Winn, the Clark staff includes Colleen Hurter (reference and computer searching), Marie McCann (book acquisitions), and Lois Burgess (secretary).



IT'S YOUR TURN!!! Barbara Vallesio answers her phone amidst the destruction of her office in Smith. The Facilities offices were recently remodeled to provide individual offices. Photo by Shelley Lauzon.

MPOM PROGRAM RECEIVES PLANNING GRANT FOR OCEAN POLICY ROUNDTABLE

A \$42,366 grant from The William H. Donner Foundation has been received by the Marine Policy and Ocean Management Program (MPOM) to plan for the establishment of a new ocean policy forum.

The roundtable will provide a nongovernmental forum where discussion and debate on key ocean policy issues facing the U.S. can take place on a regular basis, with periodic assessments and policy recommendations on these issues provided to the decision makers. Issues which could be addressed include the 200-mile exclusive economic zone and its implications on fisheries, marine scientific research, and ocean disposal/dumping; seabed mining legislation and its implications for foreign relations, navigation, national security and industrial policy; Outer Continental Shelf limits and implications for offshore oil/gas drilling; and polymetallic sulfide and manganese nodule mining.

The ten-month planning grant will enable MPOM staff, headed by Senior Fellow Bob Knecht, to study the composition and leadership of the proposed ocean policy roundtable, issues to be addressed, meeting format, the kind of preparatory work to be done between meetings, and other such areas. Members of the roundtable will be selected from ocean-related industries, environmental and public interest groups, academic and research institutions, and others with broad experience and concern in U.S. ocean policy issues.

A pilot meeting for the roundtable is scheduled for late October. A proposal for multi-year support will be submitted to prospective funding agencies in late 1983.

REMEMBER ENDEAVOUR AND FENNO FOR LUNCH!

As weather improves and crowds fill local restaurants for lunch, you might want to try Endeavour House in the village or the Buttery at Fenno House on the Quissett Campus. Prices are reasonable and the wait short. The weekly menu is posted on the bulletin board in the Clark Lab lobby next to the main entrance.



Bartender Susan Kadar tips her hat to the crowd (left); chef Terry McKee whips up dessert (middle); some of the guests enjoy the cocktail hour (right). Photos by Shelley Lauzon.

WOMEN'S DINNER A GREAT SUCCESS

More than 80 women employees of the Institution attended the first women's dinner sponsored by the WHOI Women's Committee March 3 at Fenno House.

The large crowd enjoyed cocktails and dinner prepared by The Catering Company (of which P.O.'s Terry McKee is a partner). It is hoped the dinner will become an annual event and continue the tradition set by the previous annual women's dinner. According to Susan Kadar, the Women's Committee was pleased with the turnout and reaction to the new format.

The committee hopes to sponsor a seminar on finances in the near future. Suggestions for other activities are welcome from women at the Institution.

A THANK YOU TO FRIENDS AT WHOI

Trish Thomas, former secretary to Controller Gary Walker, extends her thanks to friends at WHOI for making the Institution "more than just a place to come to work." Trish left WHOI in February.

In a note to the Newsletter, Trish said, "I can honestly say that because of you I have enjoyed my more than 10 years at the Institution. I have had a lot of good times and made a lot of good friends."

Best wishes, Trish!

INSTITUTION AWARDS \$1,000 SCHOLARSHIP TO SCIENCE FAIR WINNER

Sheila Clifford's project on "Oil, Artemia and Lipids" was the overall winner of the fifth annual Falmouth Science Fair March 12 at Falmouth High School. Sheila, a junior at FHS and daughter of Research Associate Hovey Clifford of the Chemistry Department, received WHOI's \$1,000 college scholarship.

There were 26 entries from the high school, 13 from the Lawrence School and about 30 in the noncompetitive division.

Second prize of \$100 from MBL and the SEA Award went to Nathaniel Trumbull for his project on "Azotobacter and Fertilizer." Last year's recipient of the WHOI scholarship, Roger Hayward, received a \$50 award from USGS for his third place project on lift and drag in airfoils. Gunnar Trumbull's fourth place project on seaweed extracts won a summer job at the Fisheries. Fifth place went to Emily Hocker for her project on light intensity and Brewster's angle; she won the special literary science award for the best written project offered by Dick Backus and Donald Bourne.

XEROX 2080 OFFERS LARGE-SIZE COPIES

If you haven't been to the Reproduction shop in Blake in a while, you haven't seen the new Xerox 2080 copier. The machine makes good quality large-size copies.

IN MEMORIAM

It is with great sorrow that the Institution announces the death March 17 of Dr. Alfred C. Redfield at his home on Maury Lane. He was 92.

Dr. Redfield, for whom Redfield Laboratory is named, was one of the first eight to be appointed to the Institution's staff when the Institution was founded in 1930. At that time he was professor of physiology at Harvard University, and for many years he was associated with both Harvard and WHOI.

He attended Haverford School and Haverford College, graduating with a B.S. degree from Harvard University in 1913 and a Ph.D. in 1917. He did graduate work at Cambridge University and the University of Munich.

Dr. Redfield served as an assistant professor of physiology at the University of Toronto from 1919 to 1920. The following year he began his long association with Harvard University when he joined the Harvard faculty as assistant professor of physiology. He was appointed associate professor in 1930 and professor in 1931, and served as director of the biological laboratories and chairman of the biology department from 1934 to 1938. He retired as professor emeritus in 1956.

During the 1930's, Dr. Redfield devoted his summers to research in Woods Hole while teaching at Harvard during the academic year. He considered himself a naturalist and spent his early work in the chemistry of blood circulation. His physiological studies ranged widely, including some of the earliest investigations of the effects of ionizing radiation on biological processes and studies of blood physiology comparing mammalian hemoglobin with hemocyanin, the "blue blood" of many invertebrates including the horseshoe crab.

In 1942 Dr. Redfield was named Associate Director of WHOI and he moved permanently to Woods Hole. That same year he was also named a consultant to the Bureau of Ships to advise the Navy on studies of fouling organisms on ship hulls. Important contributions were made by WHOI staff in preventing marine fouling, and the U.S. Navy credited work at Woods Hole in saving some 10 percent of its fuel bill during World War II.

Alfred Redfield considered the ocean a vast organism in which biological, physical and chemical changes are clearly and intimately interrelated, and his work on the effects of metabolic processes of organisms on the chemical characteristics of oceans had a profound effect on the future course of oceanography. His statement, "Life in the sea cannot be understood without understanding the sea itself," is inscribed on Redfield Laboratory.

His scientific studies were broad, and he was mentor to a generation of leaders in biology and physical oceanography. Following his retirement from both Harvard and WHOI in 1956 he turned his attention to studies of the salt marsh, continuing his work on ecology and tides. He wrote and published frequently and often drafted his own illustrations. In 1980 "The Tides of the Waters of New England and New York" was published for his 90th birthday and as a tribute to his long and outstanding career.

Dr. Redfield was a member of numerous professional societies and had received several awards, including the Agassiz Medal from the National Academy of Sciences and the Walker Prize in Natural History from the Boston Museum of Science. He was awarded an honorary Ph.D. from the University of Oslo and honorary D.Sc. degrees from Lehigh University, Memorial University of Newfoundland, and the University of Alaska. Dr. Redfield also served as president of the Bermuda Biological Station from 1962 to 1965 and as president of the American Society of Limnology and Oceanography in 1956.

Active in local affairs, Dr. Redfield served on the Falmouth Conservation Committee, was a town meeting member, and was instrumental in establishing the Town Forest.

Although he retired from WHOI in 1956, he remained active in many ways. He was a Trustee from 1936 to 1963, a Member of the Corporation from 1936 to 1974, and an Associate since 1959. He was named an Honorary Trustee in 1964 and an Honorary Member of the Corporation in 1974.

The Institution, together with his family, will hold a memorial service on Saturday, June 25, in Woods Hole. Further information on the memorial service will appear in the Newsletter at a later date.

PROMOTIONS AND OTHER PERSONNEL CHANGES

Recent promotions include:

Christopher V.R. Dunn - O.E. - from Research Assistant II to Research Associate.

Mark V. Hickey - Graphic Services - from Printer to Reproduction Supervisor.

Richard P. Trask - P.O. - from Research Assistant III to Research Associate.

Barrie B. Walden - O.E. - from Research Associate to Research Specialist.

BIOLOGIST APPOINTED SENIOR SCIENTIST

Associate Scientist Joel C. Goldman of the Biology Department has been appointed a senior scientist.

Joel received both his bachelor's and master's degrees in civil engineering from the University of Minnesota and his Ph.D. degree in environmental health from the University of California, Berkeley. He held several positions in sanitary engineering before joining the WHOI staff in 1972 as a postdoctoral investigator. He was named an assistant scientist in 1973 and an associate scientist in 1976.

Joel's research interests include phytoplankton ecology; kinetics of nutrient assimilation; species competition; interaction of environmental effects; continuous culture assays; toxicity effects on plankton, eutrophication of marine waters, development of mass culture techniques for marine algae; and marine primary production and nutrient cycling.

IN MEMORIAM

The Institution announces with sorrow the death March 25 of former employee Donald Fay at age 69.

A resident of Falmouth most of his life, he worked at WHOI from 1945 to 1953 as a merchant seaman aboard ATLANTIS, moving up through the ranks from able bodied seaman to first mate. He left the Institution in 1953 and retired as a rigger at MacDougall's Boat Yard. Don took many of the photographs we have of ATLANTIS and life aboard her.

NEW FACES

April 1983



James F. Aguiar, Jr.
Research Assistant
ALVIN/LULU/B. Walden
Smith 301/x2759



Ray N. Franklin, III
Research Associate
O.E./Y. Agrawal
Big. 103/x2492



Catherine A. Sweet
Research Assistant
O.E./B. Cole
Clark 151/x2878



Michael S. Wengrovit
J.P. Student
Educ./G. Frisk
Big. 310/x2228

ADDITION TO WHOI FAMILY

Congratulations to Judith and Will Ostrom on the birth of their first child, David William, March 3 at Cape Cod Hospital. David weighed 9 lbs, 2 ozs. Will is a research assistant in the Physical Oceanography Department.

CORRECTION!!!

The Newsletter incorrectly reported in the March issue that Marty Harlow Jeglinski was a research assistant in P.O. She is a research assistant in G & G.

DID YOU KNOW...?

The Institution paid nearly \$81,000 for postage in 1982, handled 222,524 pieces of mail plus 12,956 bulk pieces, with an average daily postage cost of \$325. An additional 500,000 (estimated) pieces of mail were handled via inter-office mail.

WHOI owns 35 motor vehicles, which include 9 cars, 17 trucks, 7 fork lifts and 2 cranes. Approximately 26,000 miles are driven by these vehicles each month, for a 1982 total of 311,520 miles.

The Institution owns 40 buildings, 25 in Woods Hole and 15 on the Quissett Campus.

There are presently 800 employees, making the Institution one of the largest employers on Cape Cod.

HOST FAMILIES NEEDED FOR FRENCH STUDENTS

The American Foreign Study Program (AFSP), a nonprofit organization affiliated with World Educational Student Travel in Paris, is seeking homes for exchange students from France during August.

Room and board would be provided by the host family, and the student would be included in daily family activities. For further information, contact Serena Domolky, 548-7474.

ASSOCIATES DINNERS PLANNED IN BOSTON, NEW YORK

The annual spring Associates Dinners will be held April 26 at Boston's Museum of Science and April 28 at New York's University Club. Bob Dinsmore will speak about "Oceanographic Ships, Past and Present" at the Boston dinner and Bob Ballard will speak on "Argo/Jason, Woods Hole's New Exploration Vehicle" at the New York dinner. Poster sessions before dinner will feature the work of Lee Gove and Mike Purdy on "Shear Wave Velocity Structure of Continental Shelf Sediments," Skip Little with "Color Computer Graphics in Oceanography," and Bob Chase on "Satellite-Linked Oceanographic Observing Systems."

Monday, April 18, is Patriot's Day. It is a legal holiday. Enjoy the long weekend!

WHOI EMPLOYEES PLAY AT THE COPLEY

If you're in Boston some weekend soon, stop by the Copley Plaza Hotel and listen to the music of The Eddie Scheer Quartet, which features WHOI's own Eddie Scheer and Donna Carson.

The group is playing in Copley's at the hotel every weekend from March 11 to April 30.

AREA CODE CHANGES FOR SOUTHEASTERN TEXAS

If you have occasion to call southeastern Texas, please note that the telephone area code will change June 19 from 713 to 409. A list of affected central office codes will be available at the switchboard.

NEWSLETTER NOTICES - Please send notices, photos or photo suggestions, and any other items of interest to the oceanographic community to Shelley Lauzon, editor, Co-op, ext. 2270.

DRIFT BOTTLE FROM ARCTIC ICE ENDS UP ON NORWEGIAN BEACH

A drift bottle cast into a hydrohole at ice station FRAM II April 26, 1980, by Keith von der Heydt, Greg Duckworth, Tom O'Brien, Roger Anderson and Arthur Baggoerer was found on a beach in northern Norway February 27, 1983, by fisherman Holger Nilsen of Myre, Norway.

Mr. Nilsen returned the note, which offered a \$10 reward if returned to K.O. Emery, signed by members of the research party.

CORRECTION!!!

It was incorrectly reported in the March Newsletter that Research Assistant Mary Raymer of the Physical Oceanography Department was the first woman who was not a member of the scientific staff to serve as a chief scientist on a WHOI vessel. Izzy Williams, a research assistant in the Biology Department, served as chief scientist aboard the GOSNOLD in 1972.
