



NEWSLETTER

Volume 15

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May 1974

★ ★ ★ OCEANOGRAPHIC SHIP NOTES ★ ★ ★

CHAIN departs Recife, Brazil, May 22 to begin field work for the second phase of the Woods Hole-Petrobras cooperative study of the geology and geological history of Brazil's continental shelf. The first, nearshore phase of the survey was conducted from a Brazilian ship in 1972 and 1973, when about 35,000 km of bathymetric, seismic, and magnetic data on the shelf and upper slope were collected along with extensive oceanographic data and bottom and suspended sediment samples. For this second, offshore phase of the survey, the CHAIN cruise will be divided into two programs. The first involves the dredging of marginal plateaus and seamounts along the northeastern Brazilian continental margin. The second is a two-ship seismic refraction survey which will be carried out with Lamont-Doherty Geological Observatory's VEMA, which will be engaged in a study of the North Brazilian Ridge and adjacent fracture zones. In addition to documenting the structure and history of the Brazilian continental margin, further knowledge will be gained of the relation of the margin to the South Atlantic Ocean basin.

KNORR is doing Physical Oceanography work in the vicinity of 70 degrees West between Site D and Site J. Principal scientific activities include tracking the 15° C isotherm at 200 meters with XBT's to determine the position of the Gulf Stream; time series of profiles of horizontal current with the *white horse*, an acoustically self-navigating dropsonde, in four locations; and CTD stations in the vicinity of the white horse stations. KNORR is scheduled for several shipyard days following this cruise before returning to Woods Hole about June 1 for preparations for the summer's Project FAMOUS Mid-Atlantic Ridge work. Departure for Ponta Delgada, the Azores, home port for Project FAMOUS, is scheduled for June 5. In order to save both time and fuel KNORR will tow LULU and ALVIN across the Atlantic to the Azores. Departure for the first of the Woods Hole ships' three-leg participation in the Mid-Atlantic Ridge studies is planned for June 20.

LULU has a new skipper—Dick Flegenheimer, who has been sailing second mate on the KNORR since 1971. LULU and ALVIN have both been undergoing

overhaul in Woods Hole in anticipation of the summer diving on the Mid-Atlantic Ridge. If time and maintenance requirements permit, the two will be working for NOAA in the New York bight for a few days in mid-May. Included in the work program on ALVIN in the high crane bay are: installation of a hydraulic power take-off from ALVIN's main hydraulic system to power hydraulic tools such as cutters, hammers, and drills; revision of the sub's TV system; and installation of a detachable 30-volt battery tank to operate high-powered scientific equipment independent of the ship's batteries when needed. ALVIN's deep-diving capability was proven to be substantially increased on a March dive to 10,000 feet.

About May 15, ATLANTIS II begins the last leg of her three-month participation in the international Coastal Upwelling Ecosystems Analysis off the coast of Spanish Sahara. This leg concentrates on benthos, sediments, and bacteriology with considerable station time for sampling and photographing benthic orga-



The "white horse" is lashed to the deck of the KNORR for Voyage #40. An acoustic dropsonde, the instrument drifts with the currents in an area bounded by transponders which send signals to be recorded by white horse for an indication of the vertical profile of horizontal currents. Before it is deployed, fins are attached to the instrument to correct for sideways glide. There are various stories about the origin of the name "white horse": they range from *it's named for the Bermuda pub in which its concept was hatched* to *it's white and about the size of a horse to you can take it anywhere*.

nisms and sediment. In early June, A-II calls in Dakar, the headquarters for the GARP Atlantic Tropical Experiment (GATE), before joining 25 to 30 other ships from several nations in the Equatorial Atlantic for two months with the GATE experiment.

DAVIS AND GOLDSBOROUGH ARE PROMOTED

Promotions to Research Associate have been announced recently for Ray Davis and Bob Goldsborough of Geology and Geophysics.

Ray Davis joined the Institution in March of 1973 to work on development of the hard rock coring drill, which will be employed for bottom studies in the Mid-Atlantic Ridge this summer. His present work is on design and development of the ALVIN thermal probe and hardware and release system design for Geology and Geophysics magnetometers. A graduate of the Academy of Aeronautics in New York and Worcester Polytechnic Institute, Davis worked for Sikorsky Aircraft of Stratford, Conn., with K & F Builders and Developers of Falmouth, and as a self-employed builder and carpenter before joining W.H.O.I.

Bob Goldsborough has been with the Institution since August of 1972 following graduation from Northeastern University. A portable gravity meter he built operated successfully on the THOMAS WASHINGTON last fall. His present work is on the computer interfacing of the portable system as well as operation of the technical side of the Geology & Geophysics gravity research program.

ENVIRONMENTAL DATA SERVICE LIAISON HEIMERDINGER IS BASED AT W.H.O.I.

George Heimerdinger has been named by the Environmental Data Service (EDS) of NOAA as EDS Liaison to New England. He follows Ben Richmond, who retired a few months ago, in this position, which is based at W.H.O.I.

As liaison, one of Heimerdinger's principle duties is support of regional scientists with access to the data and services of the EDS family of centers charged with archiving and disseminating a wide spectrum of environmental data. Centers included are National Oceanographic Data Center (NODC), National Geophysical and Solar-Terrestrial Data Center (NGSDC), National Climatic Center (NCC), Environmental Science Information Center (ESIC), and Center for Experiment Design and Data Analysis (CEDDA).

Heimerdinger has been a user-service specialist with NODC for the past five years. Before that he spent several years working in oceanography and marine data handling in the field.

Heimerdinger's office is Smith 301, and his extension is 204.

HOLLISTER WAS CO-CHIEF SCIENTIST FOR WINTER DSDP ANTARCTIC DRILLING

Charley Hollister was co-chief scientist with Campbell Craddock of the University of Wisconsin for Leg 35 of the Deep Sea Drilling Project aboard the GLOMAR CHALLENGER. Four holes were drilled in the Bellingshausen Sea and continental margin off west Antarctica between February and April. Evidence for vigorous abyssal bottom currents and an unexpectedly young ocean crust were among the discoveries of the cruise. The seafloor west of the entrance to the Drake Passage south of Cape Horn is approximately 100 million years younger than predicted thereby suggesting that a hitherto unknown source of seafloor crust must have existed somewhere between southern South America and Antarctica. Ice-rafted *drop stone* found in the recovered sediment suggests that Antarctica has been ice-covered only for the past 20 million years of its 500-million-year history. Charley reports that towering seas up to 20 feet formed by 70-mile-an-hour winds of the southern hemisphere's fall weather hampered drilling operations from beginning to end of the 45-day cruise.

GRADED EMPLOYEES COMMITTEE ELECTED

Those elected to the Graded Employees Committee in the election last month are: *Facilities*: Richard Bowman, Ernest Mayberry, and Martin Woodward; *Services*: Bob Hindley, Harold Johnson, Don Souza; *Administration*: Denise Franklin Backus and Jan Battee; *Biology*: Steve Boyd and Isabelle Williams; *Chemistry*: Allan Gordon and Susan MacKenzie; *Geology and Geophysics*: Lee Gove and Chris Wooding; *Ocean Engineering*: Tom Lyon, Christopher Polloni, and Carly Wing; *Physical Oceanography*: Bob Frazel and Marge Zemanovic; *CHAIN*: James Bailey; *KNORR*: Jack Sweet. Results from the *ATLANTIS II* were to be available after a mid-May port call; no one on *GOSNOLD* had been employed long enough to be eligible for the committee; and there was no response from *LULU*.

The first meeting of the newly-elected committee was scheduled for May 13.

NEWSLETTER CORRECTION: MAXWELL IS AGU PRESIDENT-ELECT

The Newsletter reported incorrectly last month that Art Maxwell had been elected president of the American Geophysical Union. Instead, he is serving a two-year term as president-elect of the organization. In 1975, he will succeed Frank Press of MIT, the current president.

Participants in the FAMOUS meeting pinpoint dive sites on contour topographic charts of the exploration area. Left to right, Hank Fleming of NRL, Joe Phillips, Gerard de Froberville of France, Richard Sibley of NRL, Skip Marquet, Jean Jarry of France, and Larry Shumaker.



FINAL PLANNING MEETING FOR FAMOUS HELD IN WOODS HOLE

French and American scientists and engineers held a final planning meeting in Woods Hole April 4 to 6 for the French American Mid-Ocean Undersea Study (Project FAMOUS). Incorporating newly available scientific data and information from recent field trips, they reaffirmed the goals of the project as set at a December meeting in Brest, France, and set schedules for the summer's work.

Focus of the study is the mid-ocean rift system, which comprises a network of cracks in the seafloor up to ten miles wide and two miles deep, virtually circling the globe. The objective is to obtain evidence on the causes of seafloor spreading and the gradual drifting of North America and Europe away from each other.

KNORR, ALVIN, and LULU are scheduled for three 15-day legs, with port calls in Ponta Delgada between each leg, from June 20 to August 11. The diving sites are about 350 miles southwest of Ponta Delgada.

On some 40 dives, the three subs will do detailed mapping of the rift area, collect bottom samples, and place instruments on the sea floor to investigate the processes by which the crust of the earth is being formed beneath the oceans. The areas for detailed submersible investigation have been chosen with a background of data and observations from some 20 reconnaissance cruises in the area over the past three years.



Series of bottom photographs on a scale of one to 250 meters were laid out on the floor of the Carriage House during the Project FAMOUS meetings to aid the scientists as they made final plans for submersible diving. Here, members of the French team examine their dive sites. Left to right, they are Gilbert Bellaiche, Claude Riffaud, Pierre Choukroune, Xavier Le Pichon, and Jean Frencheteau. The photographs were made from the USNS MIZAR with a LIBEC camera, which employs a very strong light source to photograph areas up to 150 feet across.

MARY ORTOLANI RETIRES AFTER 28 YEARS WITH W.H.O.I.

Mary Ortolani retired from the Purchasing Office at the end of March. She watched the Institution nearly quadruple in size over the 28 years she served it "faithfully and cheerfully", as one co-worker put it. She worked in the business office for the first three months of her employment, but all the rest of her career here was in purchasing. Mary says she's enjoying being at home in Sagamore, and she has had several visits from former Institution associates.

GFD SUMMER STUDIES WILL CONSIDER "GENERAL CIRCULATION OF THE OCEAN"

The 16th annual program of summer study in geophysical fluid dynamics will focus on the theme *General Circulation of the Ocean* in 1974. The 10-week session, which begins at Walsh Cottage June 24, will consist of a lecture series on the main theme supplemented by seminars dealing with recent studies in chemical, physical, and dynamical oceanography.

George Veronis of Yale will be director this year, and other staff members are Christofer Mooers of the University of Miami; Dennis Moore and Pearn Niiler of Nova University; John Bennett of NOAA/EM-IFYGL; George Needler of Bedford Institute; Edward Spiegel of Columbia; Louis Howard and Willem Malkus of MIT;

Melvin Stern of the University of Rhode Island; and Joseph Keller of the Courant Institute, NYU.

Postdoctoral fellowships have been awarded to Laurence Armi of the University of California, Berkeley; John Theys of Kitt Peak, Tucson; and Jurgen Willebrand of the University of Kiel, Germany.

Pre-doctoral fellows will be Joseph Buckley of UBC, Vancouver; Mark Cane and Mark Koenigsberg of MIT; Allan Clarke of Cambridge, England; Robert Hall of UCSD, La Jolla; Rosemary Kennett of Cal Tech; and Karl Taylor of Yale.

OCEANOGRAPHY FIELD PRACTICUM BRINGS UNIVERSITY OF MICHIGAN STUDENTS HERE

Ten University of Michigan students are in residence at MBL for the fourth annual Oceanography Field Practicum sponsored by University of Michigan Sea Grant Program and the University's Department of Atmospheric and Oceanic Science.

The students spend 10 weeks in Woods Hole in lectures, doing individual research projects, and gaining practical experience aboard ASTERIAS.

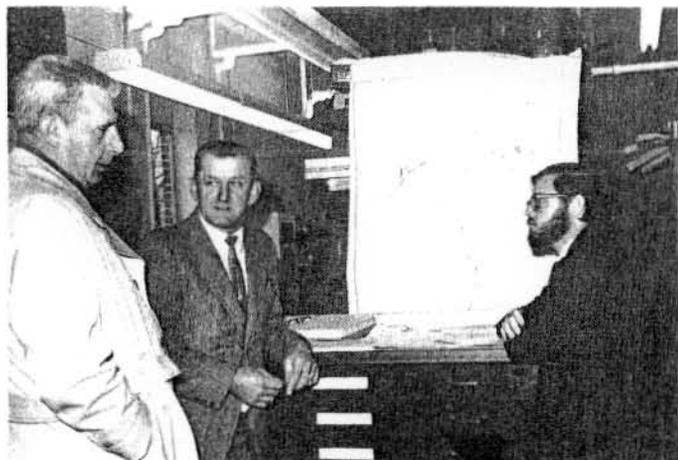
Dave Ross and Ken Tenore will be giving series of lectures for the eight-credit-hour course. Marv Stalcup is in charge of the shipboard work, and a number of other Oceanographic staff members will be tapped for individual lectures. Ed Monahan, associate professor of oceanography at the University of Michigan, is in charge of the program.

NSF GRANTS ANNOUNCED FOR INSTITUTION

Recent new grants to the Institution from the National Science Foundation include:

- \$375,500 for 12 months to Doug Webb of Ocean Engineering for *Mid-Ocean Dynamic Experiment: Sofar Float and Inverted Echo Sounder Development*;
- \$136,000 for 18 months to Tom Sanford of Physical Oceanography for *Mid-Ocean Dynamics Experiment: An Absolute Velocity Profiler Based on E-M and Doppler Principles*;
- \$128,100 for 12 months to Ken Prada of Geology and Geophysics for *Six-Channel Seismic Data Acquisition and Processing*;
- \$150,000 for 12 months to John Milliman and Colin Summerhayes for *Western South Atlantic Continental Margin of Brazil*;
- \$103,800 for 24 months to George Grice of Biology for *Zoogeography and Life History Studies of Calanoid Copepods*;
- \$45,200 for 24 months to John Teal for *Nitrogen Budgets in Massachusetts Salt Marshes*;

- \$46,500 for 12 months to Jim Heirtzler for *Support for Islas Orcadas (ex-ELTANIN) Geophysical Program*;
- \$19,900 for 12 months to Timothy Williams for *Bird Migration Over the Atlantic Ocean* (Williams, who teaches at the State University of New York, Buffalo, will be at W.H.O.I. for the summer.);
- \$55,000 for 24 months to Mac Hulburt for *Origin of the Planktonic Diatoms of the Northern Sargasso*;
- \$28,700 for 12 months to Dick Von Herzen for *Electromagnetic Induction in Oceanic Regions*;
- \$71,900 for 24 months to George Grice for *Controlled Ecosystem Pollution Experiment: Zooplankton Population Assessment*;
- \$19,900 for 12 months to Jim Luyten for *International Southern Ocean Studies: A Planning Program for the Working Group on Theoretical and Special Process Studies*;
- \$13,500 for 11 months to Greg Redmann and John Ryther for *Lobster Culture, Ecology, and Tertiary Sewage Treatment in Controlled Environmental Systems* (Student Originated Studies Project).



W.H.O.I. TAG AGAIN WINS IN LOTTERY

John Mason, right, chats with Capt. Frank Cyganowski, center, of the New Bedford seiner A.A. FERRANTE and the boat's engineer Donald Pope who came to Woods Hole to receive a check from the ICCAT lottery. ICCAT, the International Commission for the Conservation of Atlantic Tunas, runs an annual prize drawing of recovered fish tags to encourage fishermen, cannery workers, and others who work with fish to return the tags when they find them. The 1974 winners were the crew of the A.A. FERRANTE and a French fishermen working on an Ivory Coast seiner. John Mason attached the winning tag to a bluefin tuna aboard another New Bedford seiner, the NORTH QUEEN, off the New Jersey Coast at 40°N on September 7, 1972, and it was recovered 322 days later by the crew of the A.A. FERRANTE at 38°N. Frank Mather's Cooperative Game Fish Tagging Program, pioneered 20 years ago, was re-structured last year as a cooperative effort to be shared by private scientists and Federal investigators stationed at NOAA's National Marine Fisheries Service center in Miami. Mather is continuing to coordinate and direct the tagging activities from Miami and Woods Hole. Recent statistics from the Woods Hole Program indicate that Atlantic bluefin tuna stocks are in danger of overfishing—pressure on the fish stocks is shown in the tagging recovery rate average in the northwest Atlantic of 25%, with highs of 44% and 40% for tags from 1968 and 1970, respectively. Also, five of the 15 giant bluefin tuna tagged in New England coastal waters in 1973 have already been recaptured.

MOORINGS AVAILABLE TO EMPLOYEES

The Recreation Committee has seven moorings with pulley lines available off the north end of the Redfield Parking Lot for personal use by employees. These limited facilities require a couple of restrictions on the boats considered: (1) maximum length about 18 feet and (2) maximum beam about 6 feet. The Committee will review all applications for the moorings to determine eligibility, and the final choice will be by lottery. If an employee had one of these moorings last year he may apply again this year, but his application will not be considered until all new applications have been disposed of. There is a fee of \$10 per season for a mooring, and anyone using one will be expected to keep his boat properly fastened. Application forms are available in Bruce Crawford's office, and should be submitted to him no later than May 31.

A NOTE OF THANKS FROM ASSOCIATES PRESIDENT

To all Woods Hole staff members:

This spring we had three of the most successful Associates' dinners in our history. The attendance was up again for the third consecutive year, hitting an all-time high of about 230 in New York. There are a number of reasons for this—and one of the most important is the cordial, helpful and interested attitude that all of you show towards our Associates and guests. Those attending the dinners, and those who come to visit us in Woods Hole, are interested in our work or they wouldn't come. They are quick to sense an atmosphere of welcome, to appreciate the time taken to give explanations of what to them are strange and wonderful projects, and to mention it to me and to others. On their behalf and for myself, thank you, for many past, present, and future courtesies.

Townsend Hornor,
President of Associates



A bunny on the KNORR? No, Hugh Hefner hasn't gone that far yet. The "Easter Bunny" here is Bernard Kilbreth, oiler on the KNORR, who is passing out goodies to Don Metzger, Master, who was relieving Capt. Hiller on Voyage 39. The "Easter Bunny" presented colored eggs and candy to all aboard the KNORR, and it helped to bring a little Easter spirit even though they couldn't be with their families. Bernie was also the Santa Claus for Christmas — a very versatile fellow, wouldn't you say?

[Photo by Rusty Mallery, caption by Harry Rougas]

NOTICES

An hour-long *television film* on the Mid-Ocean Dynamics Experiment (*MODE*) is scheduled for Monday, June 10, at 8:00 p.m. on the Public Broadcasting System (check listings to be sure of time). Many stars of *The Turbulent Ocean* are from the Buoy Group and Physical Oceanography, and CHAIN spent several months with the project in 1973.

* * *

W.H.O.I. was represented in the 78th *Boston Marathon* this year by John Milliman, who had been lunch-hour training for about six months (since the Falmouth Marathon last August). John was in good shape, and the weather was perfect, but one of John's running shoes had decided to stay home for the day, and he ended up running in a pair of borrowed sneakers. Despite aching feet, John managed to finish the 26-mile course in three hours and 50 minutes. He says he figures to lop half an hour off that time next year just by making sure both of his shoes attend the event.

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Whoever borrowed Mel Briscoe's *HP45* is asked to please return it or call 276.

* * *

Geof Whitney has lost track of *protected reversing thermometer No. 51-440* (-2° to 30° C in $.1^{\circ}$ intervals, made by Kahl S.I. Co.). It was used on the main dock in the summer of 1972, and the card shows it was subsequently returned. It may have been issued to someone in mid-1973 and not noted on the record card. Anyone having any information about this instrument is asked to notify Geof Whitney, Blake 204, ext. 423.

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Remember *T.G.I.F.* Fridays at 1700 in Endeavour House.

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The OCEANUS office in the Coop is receiving the daily *Congressional Record*, and will soon be getting the *Federal Register*, as well. For the time being, these publications will be kept in the office and available to anyone interested.

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Missing (for some months) from Redfield 1-20 (Backus) is a framed drawing by Jerome Snyder celebrating Charles Darwin and the voyage of the BEAGLE. Please return—no questions asked.

* * *

OCEANUS Magazine is developing a picture file and *pictures* needed include those of Institution activities at sea and ashore plus landscapes, seascapes, human interest pictures, and anything else that will give readers a visual sense of life in these parts. Black-and-white pictures are preferred, though some color slides can be converted successfully. Call Chris Robinson, x. 393, or drop by the Coop, second floor.

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The purchasing department asks that requisitioners supply their full names and building locations on *purchase requisitions* so that the yellow *originator copy* can be quickly returned when the requisition is processed.

* * *

Bill Berggren attended the sixth African Micropaleontological Colloquium in Tunis, Tunisia, in late March. As part of a special symposium, he presented a paper on *Biodynamics of the Messinian Salinity Crisis in the Mediterranean*, and he also gave a lecture concerning regional distributional studies of Paleocene benthonic foraminifera, part of a W.H.O.I. cooperative program with the Aquitaine Petroleum Company of Pau, France. Berggren will be spending nine months in France at the Micropaleontological Laboratory of Aquitaine Petroleum beginning in September. Following his stay in France, he will go to Moscow for five months as a participant in the Soviet-American exchange program sponsored by the National Academy of Sciences of the USA and the USSR. He will be at The Soviet Academy of Sciences Geological Section.

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Joe Phillips is planning to spend a year beginning in September at the Department of Geodesy and Geophysics, Cambridge University, England.

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MORE NOTICES

About 350 questionnaires concerning possible use of a bus route between Falmouth and Woods Hole were returned by W.H.O.I. employees, with 35 respondents indicating interest in the suggested route.

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The Affirmative Action Equal Opportunity Task Force is seeking families willing to house students who may be working at the Institution this summer in response to the group's efforts to increase minority group representation at W.H.O.I. Anyone interested in participating in this good cause should contact Carolyn Miller in the Housing Office, ext. 389, or Affirmative Action Administrator Bruce Crawford, ext. 210. The task force welcomes any inquiries about equal employment opportunity and implementation of the Institution's Affirmative Action Plan, which was issued in revised form in an *all hands* memo dated November 13, 1973. Members of the task force, are Betty Bunce, Bob Heinmiller, Bob Alexander, Barbara Vallesio, Ken Ruffen, Art Colburn, Susan Schultz, and Bruce Crawford.

* * *

Woods Hole Community Association will sponsor a *Community Day May Festival* again this year. It will be held May 25 (May 27 in case of rain—and June 1 in case of rain on the 27th) in the Bell Tower Lane park. A fancy dress parade will start at 1030 in front of Woods Hole School. Features of the day will include kite flying, a plant sale, an engine display, roving musicians, arts and crafts displays, soccer and cricket games, a pet show, Karl Schleicher's puppets, folk dancing, a white elephant sale benefiting the Community Hall fund (white elephants may be left on the porch at 17 Millfield Street), a sale of records, musical instruments, and sheet music, and lots of food including a bake sale and a crepes stand.

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In the recent 25-mile Falmouth *bike ride benefit* for the Massachusetts Association for Retarded Citizens, Sue J. Anderson of Biology rode the full distance under the sponsorship of 20 guys in the shop gang who all agreed to sponsor Sue for 10 cents a mile each (with Tommy Souza as organizer of the sponsors).

* * *

A *new science building* at the Coast Guard Academy in New London, Conn., has been named for the Institution's third director, Rear Admiral E. H. Smith. Bob Dinsmore attended the dedication ceremony April 19 along with Mrs. E. H. Smith. A graduate of the forerunner to the Coast Guard Academy, Admiral Smith was director of the Institution from 1950 to 1956 following his retirement from a distinguished career with the Coast Guard.

* * *

An Oceanographic romance became a *marriage* April 5 in Palm Beach, Fla., when Stephanie Fofonoff and Wayne Witzell were married. The daughter of Nick and Mabel Fofonoff and son of Warren and Grace Witzell (and Warren, Jr., works here too), they met while both were summer student employees of the Institution.

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The *Newsletter* is published monthly 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.



GARDENING SEASON OPENS

The Garden plots on Woods Hole Road (at the turn to the GEOSECS Building) are beginning to take shape for the season. On a recent Saturday morning, Keith Loudon, right, recruited his friend Conrad Young to help break up the soil on his plot. The gardening season got off to a good start earlier in the year when Chris Robinson took a load of seaweed to spread on her garden plot, only to discover a few days later that she had put the seaweed on Bob Dinsmore's plot. But then a few weeks later, Al Vine reported to Chris that his son had turned over the soil on *her* garden plot

The idea of this sheet is to give everybody a chance to share ideas, efficient practices, and general information. If you have a bit of information that makes your life easier and that you think might be good for others to know about (or something you'd like us to find out about), call the Newsletter, extension 252, and let us know.

Endeavour House

Newsletter
May 1974

Endeavour House opened in January of 1972 and has been serving Institution folk ever since as a coffeehouse and lunchroom. Every work day, the basement of the former Methodist Church, located on School Street, is open from 1000 to 1600 for morning and afternoon coffee with lunch served from 1130 to 1330.

Fresh coffee, a variety of teas, and homemade coffee cake and cookies are available for coffee break. At lunch, there are homemade soups and breads, cheese, sandwich materials, cakes, pies, and other goodies. Current prices are: soup 40¢, bread 15¢, sandwiches 60¢ and 70¢, pastries 12¢ to 15¢, coffee and tea 10¢. Brown baggers are also welcome at Endeavour House.

Anyone planning to bring more than half-dozen visitors to lunch is asked to give the Endeavour House staff a couple of days' notice. The phone number is 548-9107. Food is scheduled rather tightly, allowing for about 110 servings of soup and four dozen sandwich rolls daily, though more can be prepared if needed. Giving notice of visitors will avoid their arriving to find all the goodies gone.

The upstairs of Endeavour House, formerly the nave of the church, has housed a variety of activities. Since last summer, art shows have been occupying the wall space, changing about every three weeks. In addition, drama, yoga, and recorder groups have used it regularly as a meeting place. There have also been concerts and poetry readings. Any employee wishing to use the area may do so by prior arrangement, and request forms may be obtained from Stella Livingston at Endeavour House.

Watch for notices and posters announcing Endeavour House events!