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# NEWSLETTER

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WOODS HOLE  
OCEANOGRAPHIC INSTITUTION



FEBRUARY 1990

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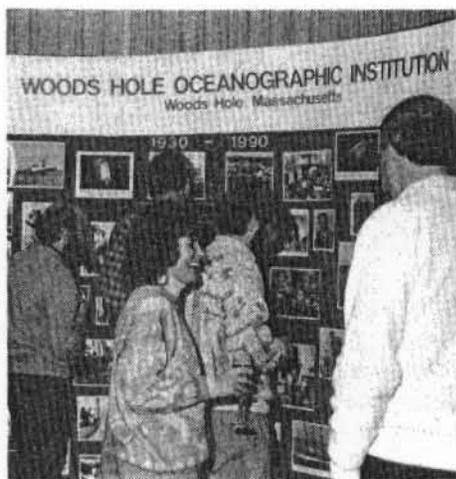
## 60TH ANNIVERSARY GALA

Employees, Associates and guests attended a special reception in Clark 507 on January 22 to kick-off WHOI's 60th Anniversary celebration. The two-hour affair gave guests an opportunity to socialize and reminisce while nibbling an assortment of cheeses, fresh fruit and vegetables, as they sipped their choice of champagne, sparkling cider and soft drinks. The conference room was festively decorated with blue and white balloons provided by the Cape Cod Balloon Company. Two large displays of black and white photos provided a look back at the 60-year history of WHOI.

Director Craig Dorman offered a toast to the Institution's past and future successes and made some brief remarks, reiterating the principles upon which WHOI was founded as outlined in the original charter. He then announced a few events scheduled for 1990 to celebrate the anniversary. Among the year's activities are the 1990 Jason Foundation for Education's expedition in the Great Lakes this spring led by Bob Ballard and the Deep Submergence Laboratory team. Other events are in the planning stages and will be scheduled throughout the year.



Director Craig Dorman raises a toast to WHOI (Photo by Tom Kleindinst)



Employees and guests reminisce at the photo display of WHOI's 60 year history (Photo by Tom Kleindinst)

Following the Director's remarks, Associate Director for Research, Bob Gagosian offered his comments on the funding history and outstanding quality of the efforts put forth at WHOI, congratulating the Institution on the continued excellence of its people and their consistently outstanding work. He noted our record of obtaining research grants from the National Science Foundation; WHOI far exceeds the country's other major oceanographic facilities. Scientists at WHOI, Bob told the group, received \$16.6 million from the foundation to do ocean research in 1989, with Scripps Institution of Oceanography research coming in second at \$9 million.

A special 60th Anniversary calendar with historic photographs is available to employees for \$5.08 in the stockroom.



Left to right, Al Vine, Rep. Eric Turkington, and Rep. Tom Cahir, Hovey Clifford in background (Photo by Tom Kleindinst)

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## Woods Hole Celebrates Black History Month

The 1990 Black History Month celebration in Woods Hole is dedicated to Carter G. Woodson, in keeping with the National Black History Month theme for 1990: "*The Father of Black History - Carter G. Woodson - a Living Legacy.*"

Carter G. Woodson was born in Canton, Virginia, in 1875. From the depths of extreme poverty, he completed high school when he was twenty-two years old, supporting himself as a coal miner. Determined to pursue an education, he went on to study at Berea College in Kentucky and later at the University of Chicago. In 1912, he earned his Ph.D. from Harvard University. By 1915, he had organized the Association for the Study of Negro Life and History, the first systematic treatment of Black history. He later initiated the observance of Negro History Week in 1926. It was Woodson's hope that through this observance, all Americans would be reminded of their ethnic roots and a togetherness in the United States' racial groups would develop out of a mutual respect for backgrounds. February was chosen as the time period for the observation of Black history due to it's being the month in which both Abraham Lincoln and Frederick Douglass were born.

Black History Month in Woods Hole is sponsored this year by the National Marine Fisheries Service, the Marine Biological Laboratory, the U.S. Geological Survey, the U.S. Coast Guard and the Woods Hole Oceanographic Institution.

An informal discussion entitled "*The Place of Blacks in Massachusetts History*" will be led by Margaret L. Moseley, civil rights and peace activist, in MBL's Swope Meigs Room at 3:30 pm on Thursday, February 22. The discussion will be followed by the annual ethnic pot luck feast HARAMBEE featuring dance music by *Visions*, a reggae/calypso band, at 5 pm in the Swope Meigs Room.

Eight Cousins Children's Book Store will offer a display and book sale in the Swope Lobby from 3 - 7 pm, February 22.

Events featured earlier in the month included "*Chant of Saints*" with Poet Laureate of Rhode Island, Michael S. Harper. Harper read from his poems and the work of other Black poets. The reading was held in the Redfield Auditorium at WHOI. Allen Counter, Director of the Harvard Foundation presented "*The North Pole Legacy: Black, White, and Eskimo*" on February 9.

## Czechoslovakia: a WHOI Connection

While traveling in Europe this past Christmas season, Liz and Tim Hawley, Assistant Editor for *Oceanus*, visited Prague. The following are excerpts of some experiences the Hawleys encountered during this historic time.

"What a time to be in Prague! We got involved in two huge celebrations; the first for the inauguration of President Vaclav Havel, the second, New Year's Eve. This was the first time in 40 years that Czechs had a leader they freely elected. There was a 10-meter diameter circle of candles at Wenceslaus Square with a crowd formed around it, several people deep, quietly lighting candles or throwing bouquets of flowers into the center. In the background, a group of people were singing folks songs and were joined by the people surrounding the candles. Then from around the corner, came the strains of the *St. Louis Blues*, played by the "Bonet Quartet and Orchestra". They started what seemed to be a New Orleans-type funeral parade for the Communist regime all the way down the square, which we joined, snaking through the small streets to the Old Town Square, a roughly four-block area where about 50,000 people were dancing, singing, hugging. A few lucky people taking hot-air balloon rides! Everywhere we went in Prague we saw their national flag flying. Most people were wearing buttons that either had a picture of Havel or else the name of the political party that he leads (Obcanske Forum, or "Civic Forum").

We were told that most houses and buildings in Prague used to have a red star displayed near their doors to celebrate Communism, but after the November 17 riots, the students offered to remove the stars for anyone who requested it. We didn't see any of these stars. Every one had been removed."

New Year's Eve (St. Sylvester's Day in Czechoslovakia) saw 100,000 crowding Wenceslaus Square. Fireworks filled the sky. People were singing and kissing one another and chanting "Aich Heer Havel!" (Long Live Havel!) I really felt a deep and generous happiness for our sake from the Czech people. People didn't remain strangers for very long; rare and wonderful connections were possible that night.

Of all the central European countries that are changing their political and economic systems, I think that Czechoslovakia has the best chance of reaching a Western European standard of living within a reasonable amount of time. People there seem forward-looking.

Tim reflected, "It was the kind of celebration, that when I think of it now, it really seems like a dream. It only happens on rare occasions".

Another connection WHOI has with Czechoslovakia is U.S. Ambassador Shirley Temple Black, whose husband Charles Black is an Honorary Corporation Member.

## JASON Project 1989 Aids Archaeology

"The importance of the JASON Project for archeology is tremendous", states Anna M. McCann, JASON Project Archaeologist in 1989. "The project represents the first 'deep sea' archaeological exploration of an ancient site. JASON took the archaeologist down to almost 3,000 feet. This a real leap for underwater research and opened up a new door for knowledge of our maritime past."

Carbon dating of four fragments of wood from the ISIS shipwreck have been completed. Three of the samples can be dated to circa 400 A.D. A fragment of wood from the ISIS has been identified by M.L. Florian as white oak, a species found in Italy and Europe, but not North Africa, indicating the ISIS was probably built in Italy. The resin in the cooking pot has been analyzed as a pine resin which compares with resins from Carthage.

An exciting discovery came when an x-ray of the resin in the cooking pot revealed a coin, recovered by Dennis Piechota, conservation scientist. It was identified as a coin forged during the reign of Constantius II (son of Constantine the Great) and dated exactly at 355 A.D. giving a more approximate time identification for the wreck of the ISIS.

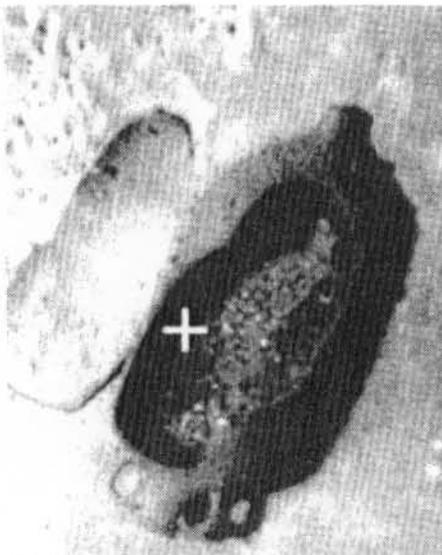
forty-three objects in all were brought back from the Mediterranean, under the supervision of Piechota. The amphoras have now all been desalinated and are determined to be in excellent condition. Still forth coming are mineralogical analyses for the pottery in the hope of identifying the origins of some of the amphoras. The archaeologists hope to discover from this analysis a pattern of trade between North Africa and Rome over the course of their trading history between 300 B.C. and 500 A.D.



*Anna McCann with amphora  
(Photo by Tom Kleindinst)*

McCann observes, "The importance of this project for the future of Underwater Archaeology cannot be over-emphasized. The conservation of the amphoras has also revealed important new knowledge about the desalination process needed in the preservation of deep water finds. This will be significant new knowledge, valuable for future deep sea projects".

An upcoming issue of *Oceanus* Magazine will carry an in-depth feature entitled "The JASON Project in the Mediterranean".



*Amphora on ocean floor (Photo  
© Quest Group Ltd.)*

## Supercomputer Comes to WHOI

CONVEX Computer Corporation announced January 10 the installation of a C220 supercomputer at WHOI for use in a variety of signal processing applications.

"The scientists at WHOI process extremely large amounts of shipboard and satellite data to improve our understanding of the structure of the earth," said Carl Bowin, senior scientist in the Geology and Geophysics Department. "The high-performance capabilities and future growth path of the C220 supercomputer made it the system of choice for WHOI."

Daniel Burns assistant scientist in G & G, is using the CONVEX system to model acoustic and seismic wave propagation in the ocean, in an attempt to understand the motion of the crustal rock plates which are ultimately responsible for most of the earthquakes in the world. "The computational speed and large physical memory of the supercomputer allows us to study wave propagation in realistic 3-dimensional models of the sea floor which have been impossible on our previous computer hardware," said Burns. "In general, the high performance C220 system has opened up new applications that before had been impractical."

Realtime image analysis techniques are also being developed which will be applied to sonar data in order to characterize the sea floor and help the unmanned vehicles ARGO/JASON system explore the ocean depths.

The CONVEX system is also being used by John Spiesberger, associate scientist in AOP&E, to map the temperature and currents of the ocean in 3-dimension based on measurement of sound waves which travel thousands of kilometers. Such information could help provide accurate weather forecasts in the future.



Santa (aka Ordinary Seaman Jim Haley) arrives in Woods Hole, December 20, aboard the ATLANTIS II (Photo by Tom Kleindinst)

### CHESTER'S CHILI

Dave Chester, a Joint Program student, secured second place with his "Wo Pig Chili" recipe in the Amateur Division of the *WMVY and Cordna Beer Big Chili Contest* held, Saturday, January 27, on Martha's Vineyard. The contest helped to raise \$4,500 for the *Red Stocking Charity Fund*. Why not check with Dave for his award winning recipe!



Do you have an announcement to share? Want to let your colleagues know what's going on in your life? The WHOI NEWSLETTER is the perfect vehicle for sharing information. Send your contributions to the NEWSLETTER, Public Information Office, in the Co-op Building.

## Staff Committee Notes

The Staff Committee would like to thank Dan Frye, Dale Goehringer, Ed Peltzer and George Tupper for their service to the Committee. The Committee is very pleased to announce that the new committee representatives are as follows: Mary Jane Tucci, Ken Bohr, Lary Ball and Ken Peal. All the new members will be serving two year terms. Continuing members are Dale Leavitt, Shelia Griffin, Mark Kurz and Kozo Takahashi.

The results of the Ballot questions are as follows:

1. Staff Committee will now represent Technical Staff, Scientific Staff and non-graded Administrative Staff.
2. Non-graded Administrative Staff may now be elected to Staff Committee
3. A monthly meeting with the Director/Directorate is no longer required.
4. The Charter now reads that two members of Staff Committee will serve on the Assembly.

The Staff Committee is currently soliciting information about the Employee Computer Assistance Program. If you have any comments regarding this program, please contact a committee member.

The Staff Committee encourages input. If you have any suggestions or problems, please contact any committee member.

Shelia Griffin  
Dale Leavitt

### CORRECTIONS

The following errors were reported in the January 1990 Newsletter:

**Kurt Fristrup** (*Biology*) was promoted to Research Associate, not Research Assistant.

**Scott M. Gallager** (*Biology*) was promoted to Research Specialist, not Research Assistant.

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## POND WATCHERS MAKE A DIFFERENCE

For the past two years the Falmouth Pond Watchers have monitored the water quality of Little Pond, Oyster Pond and Green Pond.

These 60 volunteers from diverse professional backgrounds have joined together as part of WHOI's Sea Grant Program. As a group they have proved provided more help in solving the problem of the deteriorating ponds than they could provide individually.

The program was initiated by Dave Ross, coordinator of the WHOI Sea Grant Program. Dave lives along Green Pond and recognized the potential problems when he first put forth his proposal at a Falmouth town meeting in 1986.

Some volunteer duties are to observe the ponds year-round, watching for unusual events such as fish kills, algae blooms or noxious odors. Others go out on the ponds in their boats once a month to take measurements and collect water samples.

The Pond Watchers are troubled by the pollution in the town's coastal ponds. Armand Ortins remembers Green Pond thirty years ago. "The water was so clear then my kids could sit on our dock and see all kinds of marine life in in the water. Today most of that is gone."

Edmund Wessling, another Pond Watcher on Green Pond, attributes the drop in shellfishing to all the building in the past years on both sides of the pond. "The cesspools and lawn fertilizers are leaching into the pond," Wessling observed.

Jane Carter, a former WHOI technician who concentrates her pond watching on Little Pond would like the public to be more concerned about pollution. "People are still dumping garbage in our waters," she said.

Jack Shohayda, the Pond Captain for Little Pond, is opposed to plans for additional construction on the pond. Shohayda noted, "When I moved here

in 1958 Little Pond was fresh water. It had pond lilies, ducks nesting, turtles, and rainbow trout as long as your arm. There's still some marine life there. But will it continue?"

Ortins, chairman of Falmouth's Conservation Committee twelve years ago, said, "We couldn't convince people that the water would become so polluted the fish would die. The water was so clean then. We made proposals at town meetings, but nobody understood what we were talking about."



*Armand Ortins and Edmund Wessling, Pond Watchers for Green Pond, take water samples (Photo by John Porteous)*

Alan W. White, Marine Science Advisor for the WHOI Sea Grant Program and its Pond Watcher project, summed up this indifference. "One of the insidious things about water pollution is that it doesn't happen overnight. It happens little by little so people can't envision the impending disaster."

The Pond Watchers' mission is to provide concrete measurements of pollution in Falmouth's coastal ponds. This information is submitted to the Town's Planning Commission to be used as an aid in correcting the problem.

On Sunday mornings from May to September from multiple stations on each of the three ponds, the Pond Watchers measure depth, tempera-

ture, salinity and oxygen content. The samples they collect are then tested for nutrients in the laboratory of Brian Howes, Biologist.

Sampling procedures, learned in a training session held by the WHOI Sea Grant Program are methodical and measure perfect. Using a printed guideline with step by step instructions the volunteers determine what reagents to add to water samples. In one test, the number of drops of reagent needed to clear the water sample measures how much oxygen is in the water.

Although the volunteers are not asked to participate in the winter weather, Howes goes out twice in January and March in order for the Falmouth Planning Board to have samplings year round.

The Pond Watchers is a cooperative project funded by the WHOI Sea Grant Program and the Town of Falmouth Planning Office. According to White, there are two major points to this project: to present Falmouth with an inexpensive way of documenting the present water quality of the three ponds, and with this documentation give the town an accurate basis of comparison for the future.

The funding for the Pond Watchers will terminate June 30, 1990. White, however, would like to continue the project in a different form. "We don't want to see the project come to a standstill after all the enthusiasm that's been generated," he said.

Two years ago, when White canvassed the general public for volunteers, there was considerable reticence, especially among scientists, that laymen could work as efficiently as research assistants.

"They're willing to work beyond the call of duty," White said. "Their attitude has always been 'what else can we do?' It's magnificent working with people like that."

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## Staff Education And Development Opportunities

An MBA Program is being offered locally through Western New England College. Evening classes are held at Sandwich High School and Otis Air Force Base. There are four terms a year. For more information call Dr. Neil Cronin at 362-4936.

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Cape Cod Community College and the American Management Association are offering a certificate in Management Program at the College's West Barnstable Campus, with some classes also available at Plymouth High School. Call 362-2131, x386.

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Boston University Metropolitan College will present a two-day seminar, entitled "Managing Any Project: On Time; On Target; On Budget". Dates are March 28 and 29 at the Sheraton Needham. Registration fee is \$695. Call (617) 570-8066.

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Boston College has a part-time evening program leading to a Master of Science in Computer Science. Students can be admitted in May, with courses offered from 7-9:30 pm in Chestnut Hill. Call James Gips at (617) 552-3975.

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A seminar entitled "Image and Communication Skills for Women" will be held in Boston on March 16 and again on March 17. This full-day workshop costs \$59 and is offered by the National Businesswomen's Leadership Association. Call 1-800-258-7246 for more information.

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CareerTrack is presenting its one-day seminar, "How to Deal With Difficult People", in Hyannis on March 15 at the Regency Inn. The cost is \$48. Call (303) 447-2300.

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INFORMATION ON ALL OF THE ABOVE PROGRAMS AND MUCH MORE IS AVAILABLE ON THE NEW TRAINING AND DEVELOPMENT BULLETIN BOARD ON THE GROUND LEVEL OF NOBSKA HOUSE, OR CALL MELISSA WEIDMAN AT X3272 FOR COPIES OF ANY NOTICES.

## Two New Staff Assistants in the Director's Office

Mary McLaughlin and Ginnie Ross have recently joined the WHOI staff in the Director's Office.

Mary McLaughlin comes to us from the Bank of Boston where she was an account executive in the Wellesley Hills Office. While there she consolidated the financial activities of customers and prospects via tele-marketing. She also organized the quarterly meetings, banking seminars, special events, and sales promotions for the bank. She received her bachelor's degree in Sociology-Anthropology from Northeastern University. Her new position as a Staff Assistant will be Conference Coordinator.

Ginnie Ross comes to the Director's Office in the capacity of Staff Assistant to Executive Assistant Pam Hart. Ginnie moved to the Cape last November from Apple Valley, California where she was employed with a commercial land company. She is a graduate of Bridgewater State College and a native of Massachusetts.

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## WHOI Starts Office Paper Recycling

WHOI, at the suggestion of the Falmouth Recycling Committee, has started office-paper recycling. This will be good for the environment in a number of ways, will generate some money, and will perhaps reduce WHOI's trash expenses.

Copying machine paper, worth \$60 per ton, will complement the ongoing collection of computer paper (worth \$100 per ton), a procedure that has been in operation for some time.

The plan is to start by putting labelled boxes near each copying machine or laser printer, to collect mis-copies, overruns, etc. An effort to keep extraneous material (crumpled pages, paper clips, colored paper, envelopes, etc.) out of the boxes would be greatly appreciated. Contaminants could lower the value of the paper one notch to \$35 per ton or even to \$15 per ton.

The Staff Committee is interested in supporting this effort and helping it to expand - lab bottles and aluminum foil can also be recycled. To learn more about recycling at WHOI, come to a meeting at the end of February. Watch the Weekly Calendar for details.

## Personnel Practices and Procedures Revisions

Several revisions have been made recently to the Institution's Personnel Practices and Procedures Manual. Some of which represent substantial changes or entirely new policies. For your information the most significant are:

**#1.0 Federal Contractor Policy Statement** - This statement certifies that the Institution is in compliance with the several federal employment regulations required of all federal contractors. The statement has been routinely posted on bulletin boards throughout the Institution.

**#2.5 Working Hours** - The revisions in this policy reflect the Institution's commitment to flexible working hours to accommodate, within reason, a variety of personal circumstances.

**#2.7 Definitions - Types of Employment** - Of particular interest in this revision is the proration of earned sick time and vacation time for eligible employees working less than full time. Accruals are now based on actual hours worked.

**#2.11 Drug Testing Policy** - this is a new policy, developed in response to federal regulations issued through the US Coast Guard DOT, calling for drug and alcohol testing. The intent of the regulations is to improve maritime safety by reducing the incidence of drug and alcohol abuse. This policy affects marine crew members and ALVIN group members on board Institution vessels and, in some cases, may apply to other embarked personnel on board our ships.

**#3.1 Extended Leave of Absence** - The primary change to this policy is the additional time off, with job security, now provided for employees on Maternity Leaves of Absence.

**#5.2 Disability Insurance** - The amount of guaranteed income for a disabled employee will be 60% of the employee's basic monthly earning up to \$5,000 per month. This is an increase from \$2,500 per month.

**#5.3 Business Travel Accident Insurance** - The amount of insurance coverage remains a three times the employee's annual base salary with a minimum coverage of \$50,000. The maximum limit has been increased to \$350,000. There is no cost to the employee for this coverage.

**#5.10 Vacation and Paid Leave of Absence** - The following changes are reflected in this policy: (1) the time periods required for vacation increases; (2) the inclusion of "Ice Camp" work for Sea Duty and Cruise Leave compensations; and (3) the use of up to two weeks of accrued sick leave for paternity leaves of absence.

**#5.16 Housing Allowance Program and #5.19 Second Mortgage Co-Investment Program** - Some of the mileage restrictions have been eased to enable greater flexibility in utilizing these benefits.

**#6.1 Grievance Procedures** - Clarifications have been made to the intent of the Institution's existing grievance process, along with the development of a set of procedural guidelines.

**#8.1 Travel Policy** - This should receive careful review as it represents a completely revised Institution travel policy.

**#9.8 Marine Crew Policies and #9.9 ALVIN Operations** - Shore leave is now being calculated for the first seven consecutive days of duty and prorated for each consecutive day thereafter.

You are encouraged to review these and other policies in the Personnel Practices and Procedures Manual, available in your department administrative office, the Clark Library, and throughout the Institution. If you have any questions, please check with your supervisor or the Personnel Office.



## SHIP NOTES

### ATLANTIS II/ALVIN

ATLANTIS II and ALVIN arrived in Jacksonville, FL January 31 for six weeks of maintenance and routine hull work. The vessels are scheduled to depart March 15 for dives on the West Florida Escarpment off Tampa where animal communities similar to those found in the eastern Pacific hydrothermal vents were discovered in 1984.

### R/V KNORR

R/V KNORR is scheduled to be relaunched late March from the McDermott Shipyard in Amelia, LA, where it has been undergoing upgrading and overhaul. The KNORR will return to Woods Hole this summer.

### R/V OCEANUS

OCEANUS remains at the dock undergoing routine maintenance and repair. The ship will depart in March to begin the 1990 operating schedule.

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## Woods Hole Oceanographic Institution: The Early Years

As part of our 60th anniversary celebration, the NEWS-LETTER will feature interesting notes and photos from 1930 to the recent past. This article focuses on the first year.

In the fall of 1929, with the nation on the brink of the Great Depression, the National Academy of Sciences appointed a committee on oceanography to report on the scope and problems of oceanography and on the status of this science in North America. This visionary report resulted in a recommendation being made to the Rockefeller Foundation to establish an independent oceanographic institution on the east coast of North America.

Woods Hole, Massachusetts, was chosen for this site - primarily because it was a natural deep water port and there already existed a community of marine scientist at the national Marine Fisheries Service (NMFS) and the Marine Biological Laboratory (MBL). The Oceanographic Institution was incorporated under the laws of Massachusetts and received its charter on the sixth of January 1930. A three-million dollar grant from the Rockefeller Foundation provided the initial funds for WHOI. Dr. Henry Bryant Bigelow, a noted Harvard University Biologist who had been a member of the National Academy of Science Committee recommendation establishing WHOI was elected our first director. He served from 1930 to 1939.

The first meeting for organization was held in New York on January 15, at which the original members of the corporation were chosen, some of whom were affiliated with the neighboring MBL.



They were:

Thomas Barbour	Frank R. Lillie
Henry B. Bigelow	John C. Merriam
William Bowie	Seward D. Prosser
Newcomb Carlton	Lawrason Riggs, Jr.
E.G. Conklin	Harlow Shapley
Benjamin M. Duggar	T. Wayland Vaughan



*Bigelow Laboratory (Archive Photo)*

Shortly after this meeting, plans for our first laboratory were put into motion. Negotiations were opened with the Marine Biological Laboratory for the acquisition of a waterfront site. The cost of the land was \$29,500 which was the fair market value of the land at that time. The architectural firm of Coolidge, Shepley, Bulfinch and Abbott was commissioned to prepare plans for a building, which was to become Bigelow Laboratory, named for our first Director. The plans were approved with an expenditure not to exceed \$400,000. This was to include the construction of the laboratory, as well as the dock float and sea wall.

The budget got off to a good start with the actual cost of construction completed at only \$320,544.51. This included all the furniture for the building.

The next problem that faced the committee was the selection of a name for the Institution's first research ship. At the meeting of the Executive Committee on September 27,

1930 it was voted . . . "that if Dr. Alexander Forbes is willing to transfer to the Institution the name ATLANTIS now borne by his schooner yacht, the research ship be named ATLANTIS. Failing this, that she be named PENIKESE, provided this name be not preoccupied."

Dr. Forbes cooperated and the ATLANTIS was launched December 31, 1930.

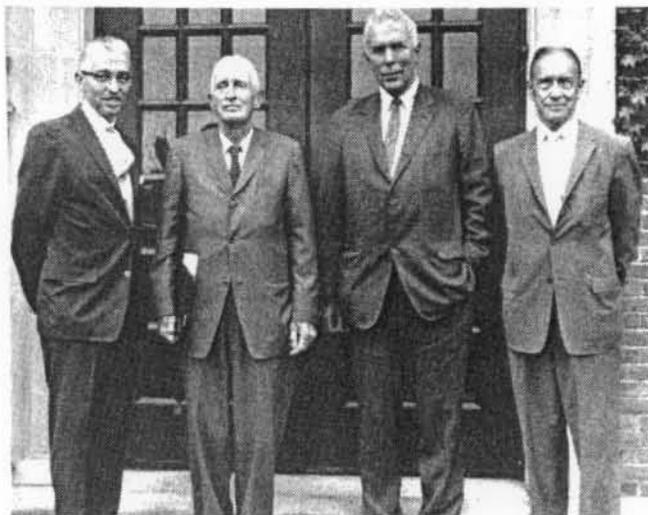
A sum of \$175,000 was appropriated for the construction of the ship in Copenhagen, Denmark. The ATLANTIS budget did not fare as well. A second appropriation of \$20,000 was necessary; ATLANTIS was over budget by \$13,129.77. At the trials in Copenhagen, ATLANTIS proved her worth, developing a speed of 9.8 knots under power over a measured course instead of the 8 knots that had been expected and with a lower fuel consumption than anticipated.

ATLANTIS sailed from Denmark on July 2, reaching Plymouth, England, three days later to load apparatus ordered in London before sailing for Boston and Woods Hole.

Shortly after ATLANTIS arrived in Woods Hole, it became evident that certain other changes were necessary. The total cost of these alterations added another \$9,000 to the cost of building the ship. In the end ATLANTIS costs \$217,129.77.

The scientific party aboard ATLANTIS on its maiden voyage were Dr. Franz Zorell, Dr. George L. Clarke, and Mr. Raymond Montgomery. The scientific program consisted of physical and chemical observations at stations along the Azores.

With the construction of ASTERIAS (named for a local species of starfish) the WHOI fleet would be complete. On December 13, 1930, the Executive Committee voted not



First four WHOI Directors (L-R) Paul Fye, Henry Bigelow, Columbus Iselin, Admiral Edward Smith (Archive Photo)



ATLANTIS (Archive Photo)

to exceed \$7,000 for the construction of a 40-foot launch for work near shore. ASTERIAS was built by the Casey Boat Building Company, was delivered on time, and came in for \$6,559.91, (\$440.09 under budget). ASTERIAS proved extremely useful, providing for all the wants of the investigators at the laboratory.

It was also during this year that Alfred C. Redfield, Norris W. Rakestraw, Carl G. Rossby, Henry C. Stetson, Selman A. Waksman (later a Nobel Laureate), Columbus O. Iselin, Olav Mosby and Sir Hubert Wilkins joined the Institution's scientific staff, which conducted research primarily in the summer while only a handful of people remained through the winter. The fledgling research facility was off to a promising start.

A total of \$5,000 provided salaries for ten research assistants, among whom was Dr. Mary Sears, Scientist Emerita, then a student at Radcliffe College, and five visiting investigators. In all twenty-nine people worked at WHOI during our first summer.

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## COMPUTER BITS

### CLASS SCHEDULE

IPCL regularly schedules classes for the PC, Macintosh, and the VAX. To get information about classes or to request a class not on the schedule, call Chris Lynch on x2417.

PC:	Advanced WordPerfect	(February 26)
	Intro to Supercalc 5	(March 15 & 16)
Macintosh	Intro to the Macintosh	(March 7)
	Intermediate Excel	(February 14)
	Intermediate PageMaker	(February 21 & March 21)
	Intermediate Word	(February 28 & March 28)

### NEW MANAGER FOR IPCL

Following the resignation of Skip Little, Bob Groman has officially been appointed Manager of IPCL after several months of serving as Acting Manager. As has been his policy, Bob especially wants to keep the lines of communication open between IPCL and everyone needing computer support. If you have suggestions for improving IPCL's services, please call User Services on x2417 or Bob directly on x2409.

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## INSTITUTION HOUSING OPPORTUNITIES

Construction was started last winter on the first housing complex built by the Institution on the Quissett Campus. Each apartment in the twelve-unit complex contains two bedrooms, a living room, dining area, kitchen and bath. The architectural design was executed by Jacobs and Greenberg Associates of Falmouth, with Chapman Construction of Mashpee responsible for the actual building process.



*Four completed units on the Quissett Campus. The remaining eight are under construction. (Photo by Shelley Lauzon)*

Feedback from the tenants occupying the four completed units has been very positive, and they say they have been extremely comfortable. The remaining eight units will be finished soon and should help to ease the burden of additional housing especially in the summer months.

All Institution housing units, including the twelve new

ones, are assigned on a priority basis. The Housing Office is willing to make every effort to accommodate eligible persons according to that priority.

A common misconception regarding Institution housing is that these units are occupied only during the summer. In reality, most of the housing is occupied during the off-season as well, when many visiting personnel, students, and investigators must be accommodated. If you need to make arrangements for Institution housing, please check with the Housing Office before guaranteeing any visitor a place to live.

The Housing Office also maintains listings of rental properties (and occasionally properties for sale) as well as listings of room situations and house shares. Check with the Housing Coordinator (Mary Jane Tucci, x2389) for any housing needs. She is eager to help you.

### Daffodil Days

Daffodil Days are here again! Daffodil Days, sponsored by the Massachusetts division of the American Cancer Society are scheduled for March 21 and 22. Daffodils are \$4.00 per bouquet of 10 flowers. Send check made payable to *American Cancer Society* to Judy McDowell, CRL, x2557 by Friday, March 2.

Won't you join in the fight against cancer and bring an early spring to Woods Hole?

# WHOI HONORS

## Nick Fofonoff Selected for AGU Ocean Science Award

As a world leader in the development of Buoy Technology, Senior Scientist Nick Fofonoff in the Physical Oceanography Department, has been selected as the recipient of the American Geophysical Union's (AGU) Ocean Science Award.

Nick will receive the award on February 14 at the New Orleans meeting of the AGU for "his contributions to the development and usage of modern oceanographic instrumentation, especially moored buoy technology and the CTD, and the equation of state."

The Ocean Science Award is given for outstanding service to the marine science community. In every case, the service must go well beyond the normal requirements of an individual's job and the individual must be nationally recognized for such service. Congratulations, Nick!

## Golden Plate Award to Bob Ballard

The American Academy of Achievement is a organization dedicated to the inspiration of youth, to raise their sights high, and to encourage them to excel in their endeavors. These goals are demonstrated through the dramatic annual salute at the Banquet of the Golden Plate, where "captains of achievement" from America's great walks of life and honor students from across the nation are invited to come together and share their experiences.

This June, in Chicago, Bob Ballard is to be presented with the prestigious Golden Plate Award. Fifty eminent "exemplars of excellence" - 25 of the Academy's past honorees now serving on the Golden Plate Awards Council and 25 new guests of honor - each a representative of the many who excel in his chosen profession, will meet with one another in a unique gathering of leaders and innovators.

During the Salute program, Bob and the adult guests will share their experiences with 450 young scholars, representing the most outstanding high school honor students from all 50 states.

The event can best be described as the "before and after" of the American Dream. The honored guests are those who have made a significant difference in today's world through individual effort in their chosen field. The roster of past awardees reads like a "Who's Who" of Twentieth Century America, and includes many Nobel, Pulitzer, Oscar, Emmy, Grammy, Heisman, National Medal of Science and Business Hall of Fame winners.

On the final evening, Bob will be presented with the Golden Plate Award as a memento of his role in an inspiring and unforgettable occasion.

## Procter Prize

The 1990 Procter Prize Award for Sigma Chi, the research society has been awarded to Bob Ballard for his outstanding contributions to science and a demonstrated ability to communicate findings to scientists in other disciplines and the public as a whole. The award will be presented in October.

## JASON Project Update

*January 29:* Director Craig Dorman and Senior Scientist Robert Ballard were elected to the Executive Committee of the Board of Directors of the JASON Foundation for Education. Bob was also elected Chairman of the Board.

*February 14:* Bob Ballard will be a guest on the Johnny Carson Show (NBC) to discuss the JASON Project.

*February 18:* The 1989 JASON Project will be featured on National Geographic's EXPLORER television series on Cable TBS SuperStation (9 pm EST).

*February 28:* A press conference will be held at the Canadian Embassy in Washington, DC, to formally announce the JASON Project for 1990 and the creation of the JASON Foundation for Education.

*April 30 to May 12:* WHOI once again will broadcast the JASON Project programs with members of the JASON Museum Satellite Network. The 1990 JASON Project is directed at students from the fourth grade through high school and will include the exploration of warships in the Lake Ontario. Five one-hour broadcasts will be aired daily six days a week, Monday through Saturday, and will be open to interested Institution personnel and well as the general public at no charge.

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## GEORGE HAMPSON NAMED CITIZEN OF THE YEAR

For his years of commitment to preserving conservation land in the Town of Falmouth, protecting its waterways from pollution and ensuring wise development, George Hampson, a research specialist in the Biology Department, has been selected as one of two recipients of the Cape Cod Times 1989 Citizen of the Year Award. George shares the award with Arthur Ratsy, the general manager of the Island Queen ferry.

George earned, along with Howard Sanders, John Teal, Max Blumer, and Bruce Tripp, national recognition with their independent studies of the environmental impact of the 1969 Falmouth oil spill.

Hampson and Tripp were founders of a non-profit land trust, *The 300 Committee*, that has helped Falmouth buy almost 600 acres of conservation land.

While president of the land trust in 1986, George personally engineered one of the committee's first and largest acquisitions, a 212-acre reservation on the other side of Coonamessett Pond. Since then, he has fought to save hundreds of acres of land from development. George noted "once a parcel of land is subdivided, you'd better live with it. You'll never get it back."

A town meeting member since 1974, he also coordinated ongoing efforts to design a protection and monitoring plan for Buzzards Bay. He has served as a regular and alternate member to the Barnstable County Coastal Zone Management Advisory Committee for the past decade.

During the 1970's George lobbied heavily for Waquoit Bay's designation as a state area of critical environmental concern. He later helped convince federal officials to include the fertile shellfishing area in the National Estuarine Reserve Program.

His first conservation success was in the early 1960's, when he helped block a proposal to build a marina in Wild Harbor River, on top of shifting sandbars in a rich shellfishing habitat.

Later George ran for a seat on the planning board which he held for 11 years, two of which he served as chairman. During his tenure the planning board wrote many of Falmouth's current subdivision bylaws and took the controversial stand of disapproving one major development proposal on the basis that its septic wastes might leach into Falmouth's Long Pond drinking water supply.

In response to an ensuing lawsuit, the board set up a land acquisition committee and convinced town meeting members to purchase the land in question, along with another nearby parcel.

"When I look back, that was a very important event, because it was a precursor to modern ideas about distances that plumes can travel. It was also the beginning of land acquisition efforts, which would reach their maturity in *The 300 Committee* in 1985," George commented.

He has been regularly consulted on environmental matters by Representative Tom Cahir, (D-Pocasset) since they worked together on a project to rebuild polluted catch basins across the Cape in 1986.

"He's a guy who does all of the legwork and never takes the bows. Falmouth is so fortunate to have a man like him at this time, in terms of how we are environmentally, and I mean it so much," said Cahir. "It's not just accolades and adjectives. He's a special guy."

Congratulations, George!

### Jason Project Receives Award

A Second Place Award from TeleConference has been awarded to the Woods Hole Oceanographic Institution for the JASON Project in the category of Best Distance Learning Program of 1989 for grades K-12 at the Eighth Annual Teleconference Awards Dinner held October 24, 1989.



*A winter view of Fenno House (Photo by Shelley Lauzon)*

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## Cindy van Dover, *ESQUIRE'S* Choice for '89

Thirty-nine people representing a cross section of American life styles were chosen for listing in *The Esquire Register* for 1989. WHOI's Cindy Lee van Dover, a 1989 Joint Program graduate, was chosen this year as a person who is "making America a smarter, funnier, healthier, wealthier, safer, saner, livelier, prettier, all around more interesting place to live."

*Esquire* posed this question to the individuals chosen. "If you could place any book on President Bush's night table and be sure that he would read it, which book would you chose?"

Cindy's choice was *Water Baby*, a soon to be released book by WHOI Science Writer Victoria Kaharl. Cindy stated, "It's a history of the submarine ALVIN and conveys the excitement of deep-sea research. It'll let him see what the troops are doing in the field."



Cindy van Dover (Photo by Rob Brown)



Senior Scientist Judith McDowell (Photo by Tom Kleindinst)

## Broadus Appointed Chairman

Jim Broadus was appointed Chairman of the Marine and Coastal Ecosystems Directorate of the U.S. Man and the Biosphere Program. He will serve for a three year term.

## Judy McDowell Promoted To Senior Scientist

Judith McDowell, formerly an Associate Scientist in the Biology Department, has been promoted to the position of Senior Scientist.

Judy graduated cum laude from Stonehill College in 1969 and obtained both her masters degree and Ph.D. from the University of New Hampshire in the field of zoology. After a year as an instructor in the Biology Department at Framingham State College, she came to WHOI in 1975 as a Postdoctoral Scholar.

The recipient of numerous awards and honors, Judy earned the New England Monthly Local Hero Award in 1985, the EPA's Environment Merit Award in 1987 and the Vettesen Award from WHOI in 1989.

Her particular research interests are the physiological ecology of marine animals, developmental and energetic strategies of marine animals, physiological effects of pollutants on marine animals, and invertebrate nutrition. Her research programs focus on the study of adaptation of marine animals to naturally fluctuating conditions and environmental perturbations, specifically related to changes in energetics and developmental and reproductive processes.

Judy lives in East Falmouth with her husband, John Molongoski, a research associate in the Biology Department.

## NEW FACES



James B. Bowlin  
Research Associate  
AOP&E  
Bigelow G7B, x2422  
J. Spiesberger



Lorraine Buxton  
Guest Investigator  
Chemistry  
Fye 111, x2326  
F. Sayles



Timothy I. Eglinton  
Assistant Scientist  
Chemistry  
Fye 111, x2326  
F. Sayles



Jonathan C. Howland  
Research Engineer  
AOP&E  
Blake 109E, x2653  
K. Stewart



Martin Marra  
Research Engineer  
AOP&E  
Blake 119, x3234  
K. Stewart



Maryanne F. Pearcey  
Senior Acctg. Asst.  
Controller's Office  
Challenger, x2855  
M. Tavares



Michael A. Spall  
Assistant Scientist  
Physical Ocean.  
Clark 311A, x4854  
R. Beardsley



Leo Wells  
Facilities Service Asst.  
Services, x2349  
Quissett Warehouse  
R. Hindley



## PROMOTIONS

**Sandra L. Botelho** (*Controller's Office*)  
to Staff Assistant II

**David A. Caron** (*Biology*)  
to Associate Scientist

**John N. Kemp** (*AOP&E*)  
to Senior Research Assistant-  
Mechanics

**Erin Lawton** (*Marine Department*)  
to Corpsman II

**Subramaniam D. Rajan** (*AOP&E*)  
to Assistant Scientist

## United Way Thank You

We'd like to express our thanks, and as surrogates the thanks of the recipients, for your record contribution this year to United Way.

We tried a more personal approach to involvement and have been sensitive to your concerns. The bottom line shows success:

**\$21,508.11**

A generous contribution, indeed, was made from WHOI folks to the Cape's needy. The degree that we value ourselves should show in the degree that we support others.

WE'RE PROUD OF US! THANKS.

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# IN MEMORIAM

## PIONEER OF UNDERWATER PHOTOGRAPHY DEAD AT 86

Harold "Doc" Edgerton, professor emeritus at MIT and WHOI Corporation Member, died of a heart attack on January 4, 1990. He was 86.

Edgerton's work in stroboscopy captured images long hidden to the naked eye. His famous photographs of a drop of milk splashing on a table top and a bullet shooting through an apple showed the world what time looks like when it stands still.

Edgerton's strobe lamps enabled the Allies to track enemy movements at night during World War II. His strobes were used to photograph the first atomic tests. His work in sonar helped locate underwater wrecks and was utilized by undersea explorer Jacques Cousteau.

Edgerton once said of his ideas and inventions, *"If it comes, it comes. It'll come by inspiration and God almighty and hit you right in the middle of the night."*

In addition to his other achievements, Edgerton started a company specializing in technology with two former students, Kenneth Gernsmaier and Herbert E. Grier. The firm was called EG&G.

"Doc" was the subject of an hour long PBS "Nova" television show, was profiled in *National Geographic*, and was featured in Gary Trudeau's comic strip *"Doonesbury"*.

Jacques Cousteau, who used some of Edgerton's sonar equipment, collaborated with him in locating the British Army ship H.M.S. BRITANNIA which was sunk by a mine off the Greek coast during World War I. Cousteau nicknamed Edgerton *"Papa Flash."*

Edgerton's influence penetrated to the depths of the Atlantic Ocean and the sunken luxury liner R.M.S. TITANIC. His Edgerton Benthos underwater camera was used to photograph the ship wreck when it was discovered in 1985.

Edgerton leaves his wife of 62 years, Esther, with whom he lived in Cambridge.

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## GEORGE GIBSON

George Gibson, former Research Assistant, in the Ocean Engineering Department died January 1, 1990. George began employment with the ALVIN group in May of 1967, having completed a 20-year career with the Navy. Gibson was promoted to Research Assistant after serving as Chief Machinist Mate until May of 1970. He was also Assistant Crew Chief on the ALVIN/LULU expeditions. He gained a reputation as an expert on hydraulics, air systems and mechanical linkage. Scientists often commented on his unusual mechanical ability to solve numerous problems, often overnight with limited resources. In 1979 he was forced to take disability leave due to a heart ailment, but returned part time to head a molding shop for the instrumentation shop in the Ocean Engineering Department until 1971, when he moved to the West Coast. He was Dudley Foster's father-in-law.

## ALVIN M. CHANDLER

Alvin M. Chandler, 63, manager of photographic design engineering with the National Geographic Society in Washington, died of a heart attack January 18 at his home in Manassas, VA.

Chandler joined the staff at National Geographic in 1965 as a technician in the photo laboratory. An underwater photography equipment engineer, he worked on many projects with WHOI staff including the preliminary design of the electronic camera system for the underwater vehicle that found and photographed the R.M.S. TITANIC in 1985.

Al designed and equipped the still and video camera system for the remotely operated vehicle, that photographed war ships located in the Great Lakes and a 19th century British ship under the Arctic ice.

Since 1976, Al served as manager of photographic design engineering at the National Geographic. In 1979, he engineered the first solid-state undersea color television camera used aboard WHOI's research submersible ALVIN to record life forms off the Galapagos Islands.

He developed the off-load package, a deep-ocean camera device that contains a large, stabilizing weight that can be released to enable the equipment to float to the surface when the project is completed.

He is survived by his wife, Dorothy E. Chandler, and his son Alvin Jr., of Manassas.

## TRAINING CORNER

### Don't let Time Management Problems Slow You Down: Get Results in Time!

Find yourself working late because things just can't seem to get done during the day? Have trouble deciding on priorities and keeping on track? Does the phone keep ringing? People keep coming in with interruptions? Whether you're tearing your hair out or would simply like to improve your skills, you'll benefit from attending Time Management Training. Staff Training and Development Administrator Melissa Weidman of the WHOI Personnel Office is designing a half day seminar that will be offered at the Institution and is open without fee to all WHOI employees. You'll learn techniques you can immediately put to work, no matter what your job. They include:

- Ways to deal with the paperwork blizzard
- How to get more done in less time
- How to get long-range projects started and done, while still keeping up with day-to-day work
- How to deal with time wasters and interruptions
- Ways to make phone calls and meetings more useful
- Procrastination management techniques

Registration for the seminar is limited and offered on a first come, first serve basis. A certificate of completion will be received by all participants. Don't miss this opportunity for vital professional development right here at WHOI. Please fill in the form below, detach and return it by February 20 to Melissa Weidman, Nobska House or call x3272.

#### REGISTRATION FORM FOR WHOI TIME MANAGEMENT SEMINAR: GETTING RESULTS IN TIME

NAME: \_\_\_\_\_  
DEPT: \_\_\_\_\_  
EXT: \_\_\_\_\_ LOCATION: \_\_\_\_\_

Please check the time and date you'd like to attend:  
(Location will be Carriage House)

Tuesday	February 27	8:15 am to 12:00 pm	_____
Wednesday	February 28	12:45 pm to 4:30 pm	_____
Thursday	March 1	5:45 pm to 9:30 pm	_____
Saturday	March 3	8:45 am to 12:30 pm	_____

This seminar is offered to all WHOI employees at no charge. Materials and supplies will be provided by the Institution's Personnel Office. You will be notified of registration confirmation.

PLEASE RETURN TO : MELISSA WEIDMAN, NOBSKA HOUSE, BY FEB 20.

## BABY BOOM

☺ **Maryjo Wheatley**, a Media Coordinator in the Public Information Office, and her husband **Bob Boden** have become parents. **Seth Boden** was born January 11, 1989 in Posong, Korea and arrived at JFK International on December 22, 1989. He weighed 19 lbs. when he arrived in the USA.

☺ **Fritz Helde**, Graphics Supervisor and his wife **Cathy** have become the parents of a 7 lb. 10 1/2 oz. boy, **James Maxwell Helde**, born January 19, at Tobey Hospital.

★ ★ ★ ★ ★

February 19 is a legal holiday  
-President's Day  
March 20 is the First Day Of  
Spring  
April 16 is the next legal holiday  
- Patriots' Day

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## WHOI Blood Drive

Seventy-five pints of blood were collected at the Annual WHOI Blood Drive held February 5 in Clark 507 reports Jim Doult who spearheaded the 1990 campaign. Thanks also go to Betsy Pratt for her excellent assistance in organizing and publicizing the drive.

Blood is desperately needed. If you were unable to participate in the WHOI Blood Drive, you may contact Nancy Sullivan at the Red Cross 1-800-258-0025, x2090. Make an appointment today to give blood tomorrow.