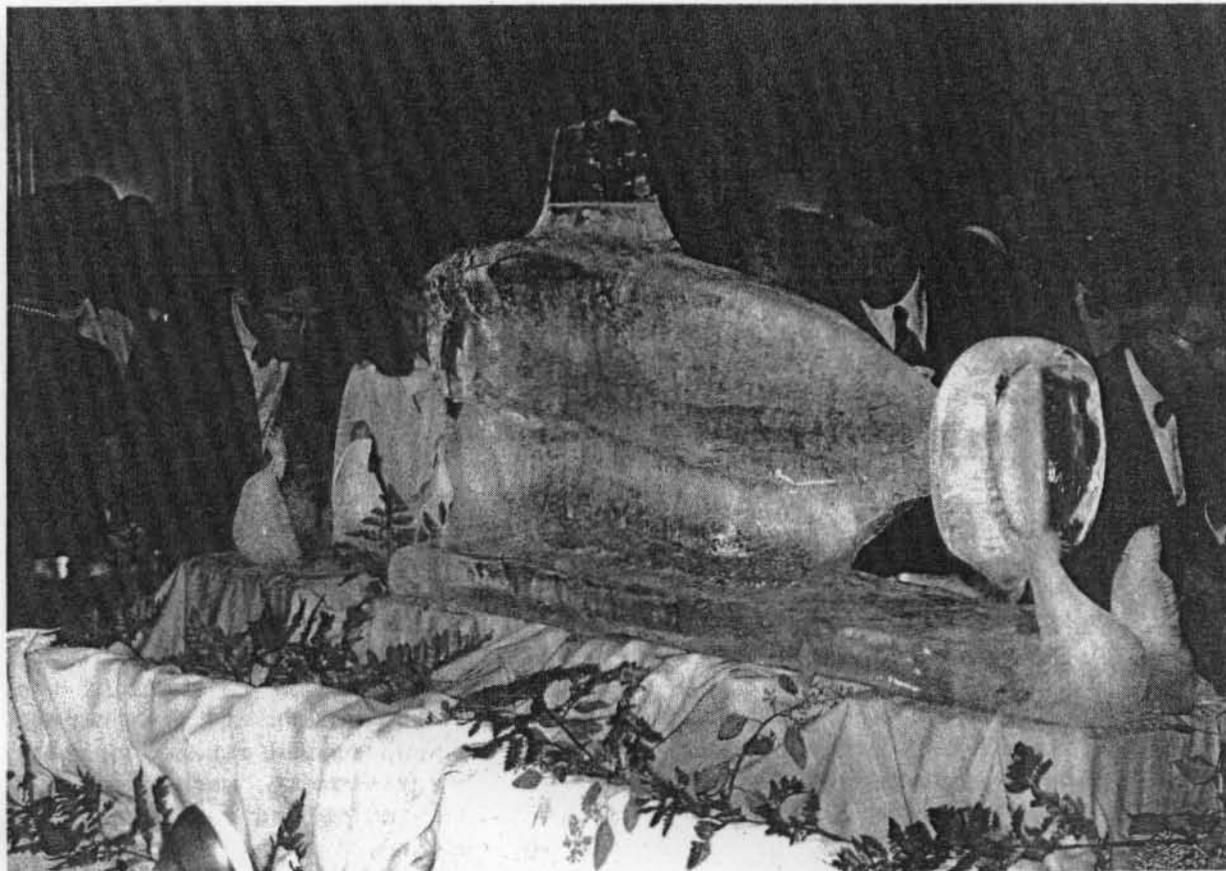




January 1980

# NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION



An ice sculpture of ALVIN, complete with penguins, was both a centerpiece and a conversation piece at the 50th anniversary dinner dance January 15 at the Copley Plaza Hotel in Boston. Photo by Shelley Lauzon. Story page 2.

## FROM WASHINGTON TO WOODS HOLE: HAPPY ANNIVERSARY, WHOI!!

A MESSAGE FROM THE WHITE HOUSE DELIVERED BY DR. FRANK PRESS JANUARY 15, 1980:

"Since its creation in 1930, the Woods Hole Oceanographic Institution has become a leading center of worldwide oceanographic research and education. Today it stands as a great national resource in that field, one destined to play an increasingly important role in years ahead.

We are a nation bounded by two great oceans. Our history has been shaped by our relationship to them. Our future will be determined even more so by that relationship -- particularly as influenced by new knowledge of the sea, its resources, its environment and its strategic importance in the world today.

As the Woods Hole Oceanographic Institution embarks on its second fifty years, we depend more than ever on its sustained success. Toward that end, I know that Americans everywhere join me in the hope that you will continue to build on the past achievements that have made us all so proud of you."

Jimmy Carter

300 ATTEND 50TH ANNIVERSARY DINNER DANCE  
JANUARY 15 IN BOSTON

Approximately 300 Trustees, Corporation members, Associates, employees and invited guests attended the Institution's 50th anniversary dinner dance January 15 at the Copley Plaza Hotel in Boston.

The evening began with a cocktail hour featuring an ice sculpture (cover photo) of ALVIN, which made its 1000th dive earlier in the day. Dr. Paul Fye presided at the dinner, where toasts were given by Prosser Gifford on behalf of MBL and by former WHOI Assistant Director Fred Mangelsdorf, now with Texaco. Music was provided by the Bo Winiker Orchestra, and brief remarks were made by Charles Adams, chairman of the Board of Trustees, Noel McLean, chairman of the Development Advisory Committee, and Dr. Steele.

Dr. Frank Press, science and technology advisor to the President, delivered a Presidential greeting (printed on page 1) and spoke about "Woods Hole, The Oceans, and Our Future." He recalled his first contact with Wood Hole in 1946.

*"It was the year I got married. It was also the year of my first scientific assignment," he said. "The problem was the assignment took place just two days after my wedding and involved sailing off on the old research vessel ATLANTIS. That was no honeymoon cruise. When I returned, my wife hardly recognized me and wanted to start our courtship all over again! My subsequent associations with Woods Hole have been less traumatic, but all productive and gratifying."*

Press noted the Institution's history and growth, and pointed out some challenges for the years ahead. The first: our view of the ocean as an enormous national resource which we are just beginning to understand and utilize. He cited its economic value in oil and gas reserves, fisheries, minerals and materials, port facilities, and the role our ocean and coastal regions play in the lives and recreation of Americans.

The President's science and technology advisor said economic resources are only part of the reason for our interest in the ocean. Our knowledge of the ocean environment and its interaction with the atmosphere must be improved so that we can better understand our weather and climate. He talked about the buildup of carbon dioxide in the atmosphere and called climate research "a major scientific quest of our times."

Press also discussed ocean pollution and the Administration's policies stressing

*"the need for adequate marine protection and ocean and coastal zone protection.*

*"The energy crisis, economic conditions and to some extent, the success of environmental rules and regulations make it necessary to seek and maintain a balance between developmental goals and protection goals in our overall ocean policy priorities," he said. "To do this, and to do it well, requires continued research into and monitoring of the marine environment, its normal healthy conditions, and its reactions to various pollutants. This is an enormous and difficult task. By comparison we probably do a far better job of monitoring our atmosphere and the quality of our air than we do our ocean waters."*

He talked about investigations in ocean chemistry and currents in the 1980s and said satellites will continue to play an important role in ocean surface studies. New improved technologies need to be developed, he added, for subsurface investigation and monitoring.

Press said immediate work in pollution should focus on the coast, noting that President Carter had recognized 1980 as the "Year of the Coast." New activity will also be directed to the continental margin and work with the GLOMAR EXPLORER.

In the years ahead, Press said ocean issues will be similar to those of the 70s: energy from the oceans and from beneath the sea floor, deep seabed mining, protection of the marine environment, management and development of living marine resources, and air-sea interaction.

*"The next fifty years of the Woods Hole Oceanographic Institution should be even more exciting and rewarding than your first half-century," he concluded. "They should provide you with untold opportunities and challenges -- with the chance to make a major contribution to the success of our country and perhaps to the very survival of people throughout the world...Happy Anniversary WHOI, and best wishes for your next fifty years!"*

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GET WELL THOUGHTS

We are glad to hear Capt. John Pike and Earl Hays are on the road to recovery. Capt. Pike was taken to the hospital during the 50th anniversary dinner dance but was released in a few days. Earl Hays underwent triple bypass surgery on his heart in late December and is at home recuperating.

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## S.E.A. OFFERS COURSES TO WHOI EMPLOYEES

Six times per year, the Sea Education Association (S.E.A.) begins the six-week shore component of Sea Semester. Two places in each of the following courses are now available at no charge to audit for employees of WHOI, MBL, USGS, NMFS and USCG.

### Introduction to Marine Science (Oceanography)

Meets Monday-Friday from 8:00 - 9:05 a.m.  
plus two afternoons per week from 1:30 - 3:30  
for three credits

### Introduction to Nautical Science (Seamanship, Marine Engineering, Piloting, Celestial Navigation)

Meets Monday-Friday from 9:15 - 10:20 a.m.  
plus two afternoons per week from 1:30 - 3:30  
for three credits

### Man and the Sea (Maritime History and Literature, Contemporary Maritime Affairs)

Meets Monday-Friday from 10:30 - 11:35 a.m.  
plus one afternoon per week from 12:00 - 5:00 p.m. for two credits

The next six-week sequence begins February 25. Credit is available through Boston University, but tuition of \$150 per credit is required. For full course descriptions and registration information, contact Arden Mason at S.E.A., 540-3954.

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## WHOI RECEIVES \$1.75 MILLION MELLON GRANT

A \$1,750,000 grant has been received from The Andrew W. Mellon Foundation for establishment of a Coastal Studies Center and to support innovative research.

Dr. Steele announced the grant at the 50th anniversary dinner dance January 15. The grant will be appropriated in two parts, \$750,000 toward establishment of a Coastal Studies Center and \$1,000,000 as a matching endowment challenge grant to establish a permanent fund in support of innovative research in oceanography.

The Coastal Studies Center will receive \$100,000 a year for approximately five years to support professional staff and \$250,000 as a flexible fund for response to emerging research opportunities in coastal studies.

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Buzzy McLaughlin is pictured above at his farewell party on KNORR December 17 with some of the women who proudly wear his scrimshaw. From left: Lolita Surprenant, Jan Batee, Buzzy, Joanne Goudreau (front), Cheryl Murphy and Lyn Brady. Photo by Shelley Lauzon.

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OWNER WANTED -- Would the owner of unmarked mud cores placed in Nat Corwin's freezer in the basement of Clark Lab please contact Nat, Clark 418, ext. 2498.

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## A THANK YOU MESSAGE

Loretta (Mike) Martin would like to thank everyone at WHOI for the many cards she received while in the hospital and for the inquiries since she returned home to recuperate from a heart attack. She would also like to thank the people whose fast action helped save her life: Tina Mendousa, Mary Jane Lyons, Steve Boyd, Ed Denton, Hovey Clifford, Steve Ferreira, Doug Moore and the ambulance corps.

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## FIRST AID and CPR CLASSES SCHEDULED

Cardiopulmonary resuscitation classes will be held February 5, 7 and 12 from 1 - 4:30 p.m. in Redfield. First aid classes will be held February 11, 13, 19, 21 and 25 from 1 - 5 p.m. in Redfield. Register in the Safety Office, Bigelow 110, ext. 2242. A complete schedule of classes for 1980 will be included in the February Newsletter.

#### EXHIBITORS WANTED FOR ENDEAVOR HOUSE GALLERY

The Endeavor House Gallery plans two shows of the artistic works of WHOI employees as part of the fiftieth anniversary observance. Tentative dates are May 18 - June 20 and August 17 - October 10. All forms of art and craft will be considered. All employees past and present are invited to participate; those interested should contact Endeavor House, 548-9107, before March 1.

#### TELEPHONE LINE WORK CAUSES PROBLEMS

During the past two weeks or so many persons have had difficulty in reaching our switchboard when they dialed 548-1400.

The problem was caused by efforts to rearrange the Institution's central office trunk lines in a configuration which would improve access and service. The work is nearly finished and the problem should be corrected shortly.

Jim Mitchell asks that apologies be extended to those mentioning this difficulty.

#### LOCATION OF MICROSCOPES REQUESTED

Any persons having an AMO Stero Microscope, WHOI Log No. 70-825, or a Leitz Compound, WHOI Log No. 72-837, are asked to notify Nat Corwin, Clark 418, ext. 2498.

#### BOOK BY INSTITUTION SCIENTIST PUBLISHED

Copies of Dave Ross's new book, "Opportunities and Uses of the Ocean," will soon be available at Market Bookshop. The book, written for the layman, was published by Springer-Verlag and will cost \$19.95.

#### 50TH ANNIVERSARY FILM FESTIVAL ANNOUNCED

The Institution's 50th Anniversary Film Festival, organized by Nancy Green, will begin February 1 with "The Caine Mutiny" starring Humphrey Bogart. All films will be shown Fridays at 8:00 p.m. in Redfield Auditorium. Admission is free.

Other films to be shown are:

February 15	"Blue Water, White Death"
February 29	"The African Queen"
March 14	"Mutiny on the Bounty"
March 28	"Moby Dick"

#### 'TWAS THE SEASON TO MAKE MERRY...

One of the many department and group Christmas parties at WHOI was held December 19 at Fenno House. The Chemistry Department had plenty of delicious food and drink on hand and all seemed to enjoy the occasion. In the bottom left photo, Geoff Thompson (center) and others sample the oyster bar. In photo below (from left), Doug Moore, Brian Schroeder, Dick Sawdo, Dave Ross and Charlie Olson try some of the homemade dishes. Photos by Shelley Lauzon.



## FUNDING ANNOUNCEMENTS

The following are recent funding announcements for scientific support.

### From the National Science Foundation:

- to John Hunt for "Geochemistry of Volatile Organic Compounds in Marine Sediments," \$75,045;
- to Harry Bryden for "U.S./U.S.S.R. Mid-Ocean Dynamics Experiment (POLYMODE): A Study of the Mesoscale Potential Vorticity and Heat Budget in the Oceanic Thermocline," \$280,500;
- to Craig Taylor for "Microbial Transformations of Organic Compounds in the Anoxic Marine Environment," \$85,745;
- to John Whitehead for "Buoyancy-Driven Flows," \$68,230;
- to Peter Rhines for "Joint U.S./U.S.S.R. Mid-Ocean Dynamics Experiment (POLYMODE): Dynamics of Ocean Eddies: Turbulent Diffusion, Lateral Propagation, and Mean-Flow Induction and Administration of the POLYMODE Theoretical Panel," \$62,500;
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- to Jim Luyten for "Observations of Sub-surface Equatorial Jets in the Indian Ocean," \$224,700;
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- to Joseph Pedlosky for "Research in Finite Amplitude Baroclinic Waves in the Atmosphere and Oceans," \$191,700.

### From the National Oceanic and Atmospheric Administration:

- to Frank Carey for "Pelagic Fish Tracking Program," \$15,000;
- to Judy Capuzzo for "The Effects of Pollutants on Marine Zooplankton at Deepwater Dumpsite 106," \$42,769;
- to Dave Aubrey for "Field Investigations of Beach Profile Changes: Nearshore Sediment Transportation Study (Task 4E)," \$39,300.

### From the Office of Naval Research:

- to Ken Prada for "Upgrade to Seismic Signal Processing Facility: FRAM - II Acoustics in the Arctic Basin," \$190,442;

- to Nick Fofonoff, Jim Luyten and Bill Schmitz for "Moored Array Experiments," \$1,402,156;
- to Earl Hays for "Continuation of Under-sea Acoustic Research," \$500,000.

### From Sandia Laboratories:

- to Charley Hollister for "Mid-Plate, Mid-Gyre Sea-Bed Assessment for Radioactive Waste Disposal," \$53,977.

### From the Geological Survey of Japan:

- to Dick Von Herzen for "Digital Heat Flow Instrumentation for the Japan Geological Survey," \$14,800.

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### ELEMENTARY STATISTICS COURSE TO BE OFFERED AT COMMUNITY COLLEGE'S FALMOUTH EXTENSION

A noncalculus-based introduction to descriptive and inferential statistics, to be taught by Don Bankston of WHOI, will be offered at Falmouth High School beginning February 6. The course, with three semester hours' credit, will meet Wednesdays from 6:30 to 9:30 p.m. for fourteen weeks. Tuition is \$75.

Topics to be included in the course are measures of central tendency, measures of dispersion, correlation and regression, statistical inference, and analysis of variance. One year of algebra is required.

Registration for the course, offered by Cape Cod Community College, will be held January 22, 23, 24, 29, 30 and 31 from 6:00 to 8:00 p.m. at Falmouth High School. Contact Don Bankston, ext. 2756, for further information.

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### CLARK PARKING SUGGESTED FOR EXTENDED LEAVES

If you are planning to leave your car in an Institution parking lot for any extended period, Andy Wessling suggests you leave your car in the main parking lot at Clark Lab. The Clark lot is considered to be more secure than the School Street lot.

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### 1980 CALENDARS STILL ON SALE

Copies of the 1980 WHOI calendar, featuring some of the smaller ships used by WHOI in the past fifty years, are still on sale at the Smith stockroom for \$1.50 each.

## OCEANOGRAPHIC SHIP NOTES

ALVIN and LULU arrived in Panama January 21, completing geological work for NOAA. They are scheduled to depart January 26 for Miami, with a return to Woods Hole February 14 after nearly seventeen months in the Pacific.

ATLANTIS II departed Punta Arenas, Chile, January 17 on Leg IV of Voyage #107. Work for Texas A & M University includes physical oceanographic studies of the Antarctic Circumpolar Current in the vicinity of the Drake Passage. The ship is scheduled to return to Punta Arenas February 3 and depart on Leg V February 6, continuing work for Texas A & M University.

KNORR remains at the pier undergoing maintenance and repair. She is scheduled to depart February 24 for a geological cruise.

OCEANUS departed Woods Hole January 18 on Leg I of Voyage #78. Work for the Chemistry Department will involve obtaining information on the rates of removal of certain trace metals and naturally occurring radionuclides from seawater and investigating the enrichment of trace substances in the sea-surface microlayer. OCEANUS is scheduled to arrive in Bridgetown, Barbados, February 8.

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### WHOI SAFETY: WORKING WITH MERCURY

Institution Safety Officer Eric Spencer's column this month focuses on mercury and mercury compounds, commonly used in many laboratories and in thermometers, manometers and other instruments.

Mercury and mercury salts are toxic and may enter the body by inhalation, absorption and ingestion. The most common route is inhalation of the vapor, followed by ingestion of the salt. Exposure to mercury may result in systemic poisoning from accumulation in body tissue. Symptoms may develop slowly and include tremors, emotional disturbances, inflammation of the mouth, loss of teeth, loss of appetite and weight, and disturbance of the digestive and kidney functions. The expression "mad as a hatter" was an early recognition of mercury poisoning.

OSHA has established a Threshold Limit Value (TLV) of 0.1 mg mercury vapor per cubic meter of air. At room temperature, 25°C, the equilibrium concentration of mercury vapor would be 200 mg/m<sup>3</sup> or 200 times

the TLV. If mercury is spilled on a heated hot plate or in an oven, even the small amount from a broken thermometer may generate concentrations which can exceed the TLV 30,000 times.

A typical laboratory oven has a thermometer installed through the top, with the bulb inside. The bulb should be raised or protected to minimize the possibility of breaking during oven loading or unloading.

Where large reservoirs or "U" tubes are installed on apparatus, a container should be placed beneath it or around it to minimize the area contaminated in case of breakage. When spilled, mercury scatters rapidly in many small droplets, making cleanup and decontamination difficult.

Users of large amounts of mercury should arrange to have a special spill kit immediately available in their laboratory. Mercury and its salts can penetrate unbroken skin, so all skin contact should be avoided. As in all laboratories using chemicals, eating and drinking and smoking should not be permitted.

The Safety Office has a small aspirator pump available for cleaning up spills, and is planning to acquire a mercury vapor detector in the near future.

Control measures, in addition to reducing worker exposure, will significantly reduce contamination time and time lost to the science effort from mercury spills and releases.

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### AMATEUR RADIO OPERATORS PROVIDE VITAL LINK TO SHIPS AT SEA

Several nights each week, amateur radio operators in the Falmouth area talk to our ships, and other ships, at sea.

Known "hams" at the Institution are Mel Briscoe, Terry Joyce, Tim Cowles, Jim Valdes, Clayt Collins, Ernie Mayberry, Bill Terry, Bill Horn, Alan Chave, Emerson Hiller, Bob Spindel, Gordon Glass, Bob Lavoie, Steve Liberatore, Peter Rhines, Marvel Stalcup, Fritz Hess, Nick Fofonoff, Henry Stommel, and Joe Kiebala.

Many are members of the Falmouth Amateur Radio Association; Bob Spindel is serving as president this year. Club members, particularly Kent Swift and Mark Munson, tune in their radios at night or early in the morning, whenever they have some spare time, to talk with other amateur radio operators around the world.

*continued on next page*



1979 WHOI CHRISTMAS PARTY A GREAT SUCCESS

Photos by Shelley Lauzon and Judith Wiebe (top right)



CHRISTMAS PARTY ENJOYED BY 417

More than 400 employees and their guests attended the annual WHOI Christmas party December 14 at the Sheraton Inn, Falmouth.

A roast prime rib dinner was served and music for dancing provided by The Rojays and the Water Street Acoustic Jazz Band. Those enjoying cocktails at poolside found appropriate decorations: a boat filled with presents and a beer can Christmas tree secured to a mooring marked with a WHOI flag.

A job well done to Sandi Burt and the Christmas Party Committee, and a special thanks to Debbie Wiebe Montgomery for her creative posters and invitations, to Will Ostrom and Dave Simoneau for their decorations, and to Pam Saunders for ticket sales.

AMATEUR RADIO (continued from page 6)

In recent weeks members have been talking regularly with the ATLANTIS II, which is off the southern coast of South America near Chile. Those with suitable equipment

have been connecting, or patching, ship personnel to their families via the telephone. ATLANTIS II radio operator Butch Smith, who is also a licensed amateur radio operator, has been placing many calls through other operators for ship personnel. Emerson Hiller, captain of KNORR, received his amateur radio operator's license in April 1979 and spent much of his spare time placing calls during the ship's 19-month Pacific voyage.

Club members say it is not difficult to learn amateur radio operation, that only basic radio knowledge is necessary. Others, like Bob Spindel and Jim Valdes, have built their own equipment. The club is offering a course for those interested in amateur radio operation Tuesday nights for 8 - 10 weeks. For further information contact Bob Spindel or Nelson Lindley, 548-6011.

Families of personnel at sea who would like to contact the ship should contact the Falmouth Amateur Radio Association, 548-6011.

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# NEW FACES

January 1980



David C. Hurd  
Visiting Investigator  
G&G/J. Ewing  
Clark 108/x2596



Richard F. Tench  
Res. Assistant  
O.E./C. Tollios  
Big. 109/x2725



Richard P. Trask  
Res. Assistant  
P.O./M. Briscoe  
Clark 322A/x2395

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## CHRISTMAS PHONE PATCHES MADE FOR ATLANTIS II

Marga McElroy, Linda Graham and other volunteers maintained a radio watch on the ATS satellite communications system from 1-3 p.m. and 7-11 p.m. Christmas Eve. Twenty-eight of thirty phone patches requested were put through for ship personnel; an overseas line couldn't be obtained for one person and the last didn't show up as arranged. Ship-board personnel appreciated the efforts.

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## FEBRUARY 1980 TO BE A RARE MONTH

The next time WHOI employees will receive three paychecks in February will be in 2034. That fact was researched by Mike McCartney, an assistant scientist in the Physical Oceanography Department. Who sponsored that research Mike??

## PROMOTIONS AND OTHER PERSONNEL CHANGES

Recent promotions include:

Lawrence P. Costello - Marine - from Ordinary Seaman, R/V KNORR, to Able Body, R/V LULU.

Recent transfers include:

Harry E. Oakes - from Senior Mechanic, Facilities, to First Assistant Engineer, R/V KNORR.

Recent appointments include:

Susan Humphris Lohmann - Visiting Investigator, Chemistry.

Dean H. Roemmich - Postdoctoral Investigator, P.O.

Recent retirements include:

John P. Bizzozero - Chief Engineer, R/V ATLANTIS II.

Barbara B. Breivogel - Research Assistant, P.O.

Edward J. Brennan - Able Body, R/V OCEANUS.

Frances L. Davis - Secretary, Services.

Robert C. Davis - Carpenter, Facilities.

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## MICROSCOPES REQUESTED BY S.E.A.

Donation or long-term loan of used compound and dissecting microscopes in good or repairable condition is requested by the Sea Education Association. Contact Susan Humphris or Jim Millinger at S.E.A., 540-3954.

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## ALIEN ADDRESS REPORTS DUE BY JANUARY 31, 1980

All immigrant and nonimmigrant aliens resident in the United States on January 1, 1980, except those in A and G classes, are required to submit form I-53, Alien Address Report, to the Immigration and Naturalization Service before January 31, 1980. Form I-53 is available at any Post Office, and there is a limited supply in the Personnel Office.

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## WHOI CONTRIBUTES NEARLY \$7,000 TO UNITED WAY

United Way Campaign Chairman Nat Corwin extends his thanks to all Institution employees who contributed to the recent campaign. "We passed along \$6,964.00 to the fifteen worthwhile Cape Cod organizations," Nat reports. Employees contributed \$6,970 in 1978.

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Send Newsletter items to Shelley Lauzon, editor, Co-op, ext. 2271.