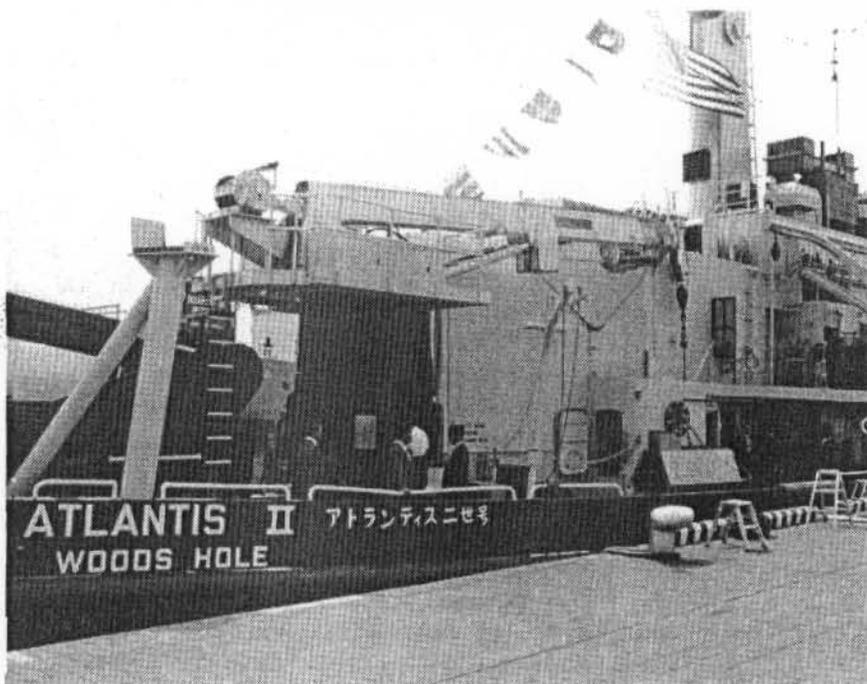




NEWSLETTER

May — November 1987 WOODS HOLE OCEANOGRAPHIC INSTITUTION

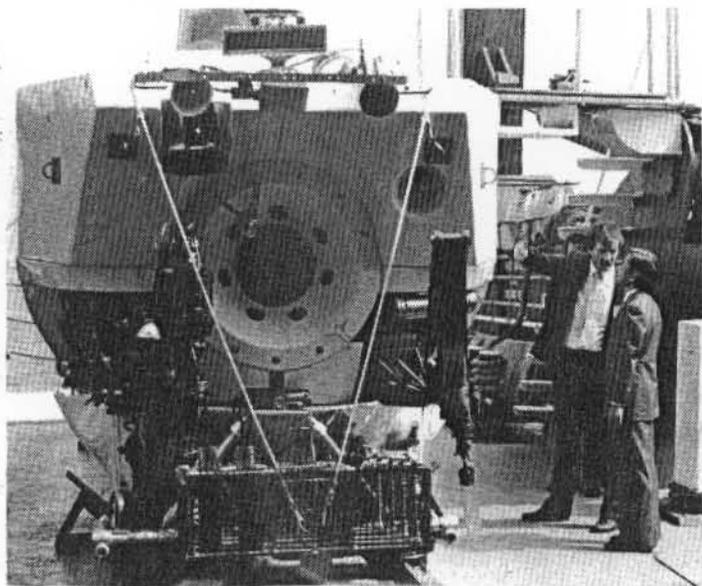


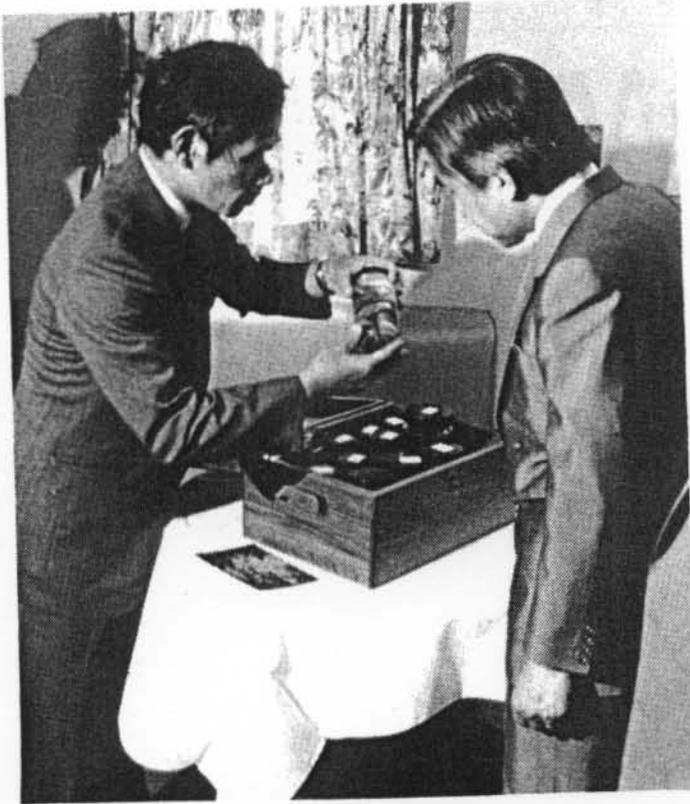
For the first time in 22 years, ATLANTIS II made a port call in Tokyo August 2-9. While the ship and its crew are accustomed to hosting visitors, this port call was far from routine.

Not long after ATLANTIS II docked at Harumi Pier near downtown Tokyo, curious onlookers began to arrive to take photographs of the vessel and catch glimpses of ALVIN on the fantail. Senior Scientist Sus Honjo of the Geology and Geophysics Department, one of the seven WHOI representatives in Tokyo for the week of activities, painted the ship's name in Japanese next to the English version on the starboard side of

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ATLANTIS II VISITS JAPAN





(continued from page 1)

the stern, much to the delight of the seemingly endless stream of onlookers and visitors throughout the week.

Director John Steele, Associate Director for Scientific Operations George Grice, Senior Scientist Peter Brewer of the Chemistry Dept., Development Director Paul Dudley Hart, Manager of Submersible Engineering and Operations Barrie Walden, and Publications and Information Manager Shelley Lauzon were also in Japan for the port call. The A-II had last visited Tokyo and Kobe, Japan, in 1965 on Voyage #15.

The port call marked the conclusion of very successful U.S.-Japan collaboration in sea-floor studies in the western Pacific. A number of Japanese scientists had worked aboard the A-II during extensive investigations in the Mariana Trough area. The Japanese broadcast network NHK was aboard for one leg and made a highly rated film about ALVIN's hydrothermal vent work in that vicinity.

As the science party disembarked with their gear, security officials arrived to begin preparations for the August 4 visit of Crown Prince Akihito. Small police boats with flashing red lights took positions near the ship, numbering ten at the time of the actual visit. Frogmen checked the ship's hull, and other precautions were taken to ensure that all went according to plan. Just before 2:00 p.m. on the 4th, U.S. Ambassador to Japan Michael Mansfield (a former U.S. Senator) arrived, followed shortly after by the Crown Prince, who was met at the gangway by WHOI Director John Steele, Ambassador Mansfield, Professor Takahisa Nemoto, Director of the Ocean Research Institute (ORI) at the University of Tokyo, and Nobuyuki Makimura, President of the Japan Marine Science and Technology Center (JAMSTEC).

While the 30-40 media representatives who routinely cover the Imperial Family were kept in strict control by the Imperial Household Agency and security officials, the Crown Prince spent several hours aboard ATLANTIS II. His activities included a tour of the ship and an opportunity to climb into ALVIN with Pilot Dudley Foster, discussions with U.S. and Japanese scientists about their collaborative work in the western Pacific, and a chance to view poster exhibits set up in the main laboratory on other recent



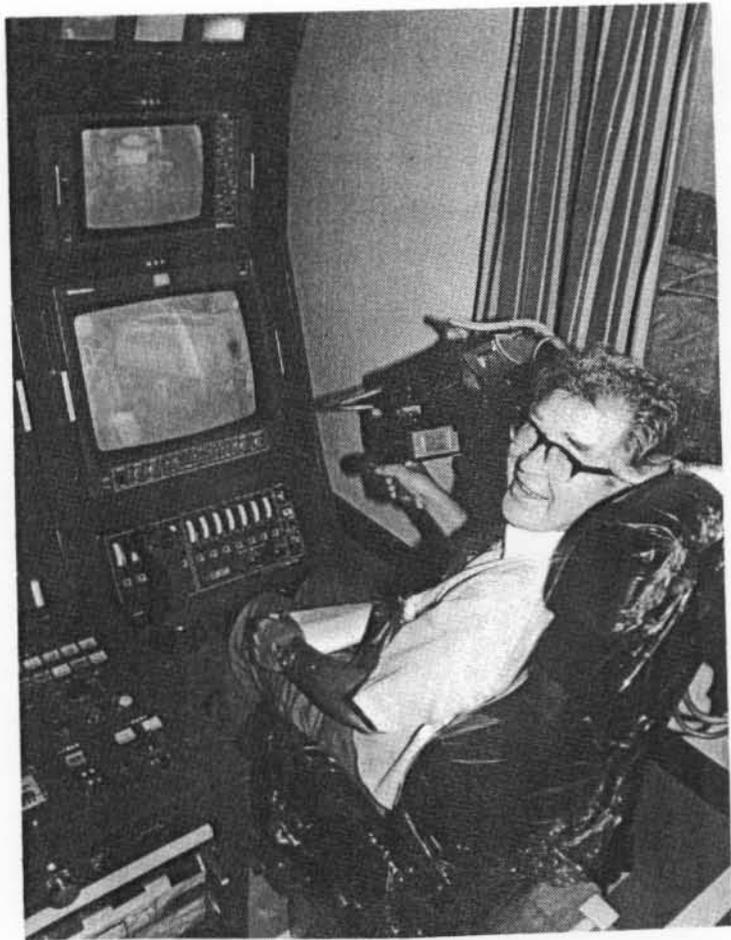


PHOTOS: Page 1--ATLANTIS II proudly bears its name in both English and Japanese while docked in Tokyo, thanks to Sus Honjo (top left); Barrie Walden discusses ALVIN operations with Crown Prince Akihito (bottom left); the Japanese press corps was never far from the Crown Prince as he toured the A-II (bottom right). Page 2--Dr. Otta of ORI shows the Crown Prince a set of biological samples gathered by ALVIN in the western Pacific (top left); John Steele, Sus Honjo, and Reuben Baker speak with Miss Tokyo, who came to present various gifts to A-II from the Port of Tokyo (bottom right). Page 3--The Crown Prince meets Margaret Leinen of URI and WHOI staff (top left); John Steele sits in the driver's seat of JAMSTEC's ROV DOLPHIN (bottom right). Page 4--John Steele and Sus Honjo discuss WHOI projects with the Crown Prince (bottom left); Paul Dudley Hart speaks with some of the many Japanese visitors to the ship (top right). Photos by Shelley Lauzon.

ATLANTIS II/ALVIN work as well as on general Institution activities. Following a champagne toast in the mess, the Crown Prince spoke informally with many of the ship's officers and crew, ALVIN group members, and WHOI representatives. He was delighted when Director John Steele presented him with several photographs of his September 20, 1953, visit to the Institution and his father's October 4, 1975, visit to Woods Hole. A small plaque made from a piece of the mast of R/V ATLANTIS, a WHOI tie, and WHOI clothing for his family were among the other Institution mementos the Crown Prince received.

Although Emperor Hirohito was unable to visit ATLANTIS II, a special set of biological specimens gathered during ALVIN dives in the western Pacific was assembled for his private collection. The WHOI Carpenter Shop made a beautiful teak case for the twelve specimens, which were displayed during the Crown Prince's visit and presented to the Emperor's Chamberlain at the Imperial Palace later in the week by a joint WHOI-Japanese delegation. The specimens included crabs, snails, limpets, a shrimp, and a mussel; these will be classified by the American scientific community and were presented

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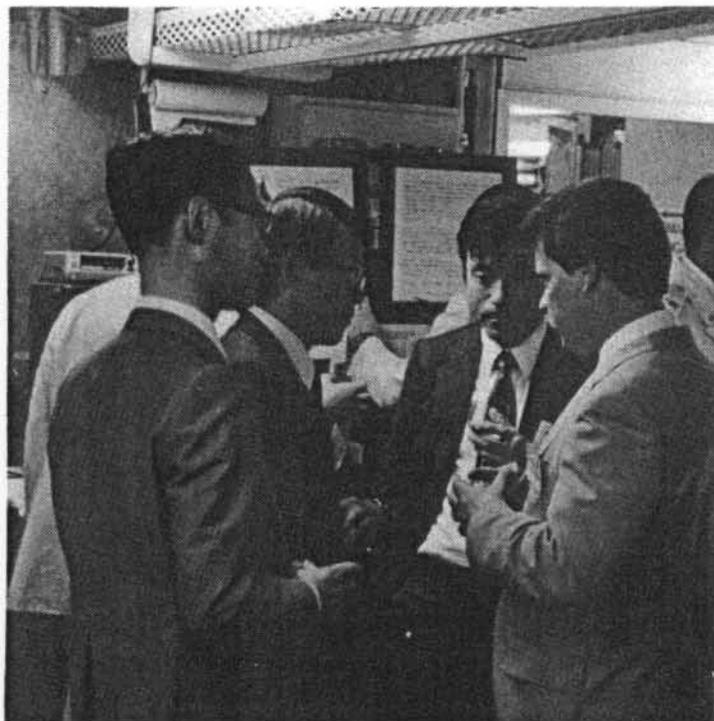
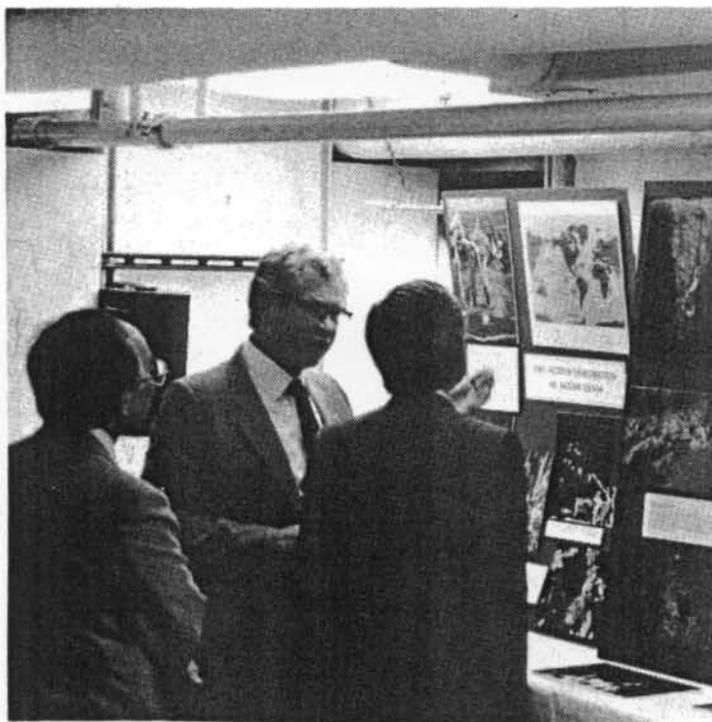


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by the Institution on behalf of the U.S. marine research community.

August 5 was devoted to morning and afternoon discussions aboard A-II with colleagues at ORI and JAMSTEC. Projects like the Global Ocean Flux Study (GOFS), in which Peter Brewer and Sus Honjo are active, and submersible technology were the focus of the discussions. WHOI representatives were guests of honor that evening at a reception hosted by ORI in downtown Tokyo.

August 6 was media day. A press briefing on July 30 at the U.S. Embassy had been attended by some 25 newspaper, magazine, wire service, radio, and television reporters--the largest science media gathering at the Embassy in more than a year. The opportunity for media to speak directly with scientists and film aboard ship, rare by Japanese custom, attracted more than 65 media reps to the ship on August 6 for the day-long event. Once the press had left, A-II prepared for a VIP reception, which was co-sponsored by the Institution and the Bank of Boston, for industry, government, and academic colleagues. The catered reception aboard ship was followed by a party for the ship's crew.



The next two days, August 7 and 8, were reserved for invited delegations from the various ministries and government groups, universities, and industries related to marine science and technology. Group after group appeared on the dock for tours of the ship and submarine throughout the day and into the evening. When Saturday evening arrived and the visits concluded, an estimated 1,500-2,000 people had visited ATLANTIS II and ALVIN.

A small crowd assembled on Harumi Pier for the ship's departure from Tokyo the morning of August 9. A larger crowd gathered at Yokosuka, home of JAMSTEC, as ATLANTIS II exchanged whistles and flags with JAMSTEC's submersible support ship MATSUSHIMA in celebration of the City of Yokosuka's 80th anniversary. With balloons and fireworks as a farewell salute, ATLANTIS II AND ALVIN headed out of Tokyo Bay for the two-week transit across the Pacific to Oregon. A very hectic but highly successful visit to Japan was added to the ship's log book. Special thanks to the officers and crew of ATLANTIS II and the ALVIN group for their enthusiasm and good will during the visit.

MARINE POLICY CENTER ADVISOR WINS THE NOBEL PRIZE

Economist Robert M. Solow, Institute Professor at MIT, has been awarded the Nobel Prize for Economics for his pioneering studies on economic growth. Dr. Solow is a member of the Senior Advisors Committee of the Marine Policy Center and is the father of MPC Social Scientist Andy Solow, who joined WHOI in 1985.

Jim Broadus, director of MPC and a fellow economist, was delighted at the news. "As a lower Alabama native," he said, "I see Bob Solow as being to economics what Bear Bryant was to football. . .and he is much better spoken."

NEWSLETTER RESUMES MONTHLY SCHEDULE

After a long delay caused by a staff shortage and heavy workload in the Publications & Information Office, the WHOI Newsletter resumes its monthly publication schedule with this issue and will premiere its new appearance next month. We hope you'll like it!

Newsletter Editor Rob Brown welcomes your suggestions for story ideas and photo opportunities. We're glad to be back!

A NEW APPROACH TO RECRUITING

Twenty-two faculty members in science and math departments from four-year liberal arts colleges participated in a workshop June 21-26 sponsored by the Education Office in conjunction with MIT. The intensive week-long session, funded by the Office of Naval Research and The Pew Memorial Trust, was the first in a two-year program aimed at developing a network of knowledgeable faculty advisors at colleges and universities to whom undergraduate students can turn for guidance in oceanography. Thirty-five colleges and universities were represented at the workshop. The highly successful program will be repeated in 1988. PHOTO (right): WHOI Dean Charley Hollister speaks with a participant at the closing session in Clark 507. Photo by Shelley Lauzon.

GLASS AND SPINDEL LEAVE FOR UNIVERSITY OF WASHINGTON

More than 100 friends and colleagues gathered May 29 at Carriage House to wish Ocean Engineering's Gordon Glass best wishes on his new position at the University of Washington, Seattle. Several weeks later, on June 12, a similar gathering took place at Fenno House for Ocean Engineering Department Chairman Bob Spindel, who left the Institution July 1 to head the Applied Physics Lab at the University of Washington. Bob is also serving that institution as Adjunct Professor of Oceanography and Professor of Electrical Engineering.

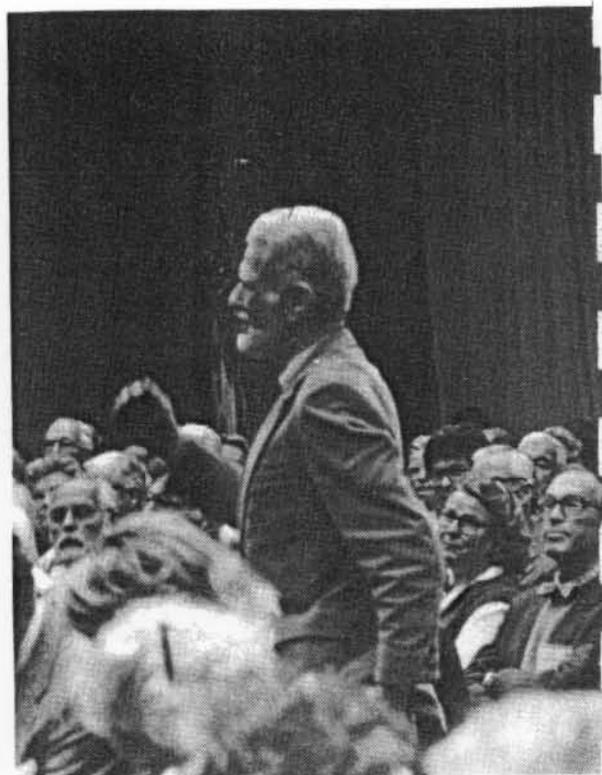
Although they have left Woods Hole, Gordon and Bob maintain strong ties to the Institution and keep in touch. Bob continues to work on the acoustic tomography program with O.E. colleagues Jim Lynch, Paul Boutin, and John Kemp. Sandy Williams is serving as Acting Department Chairman.

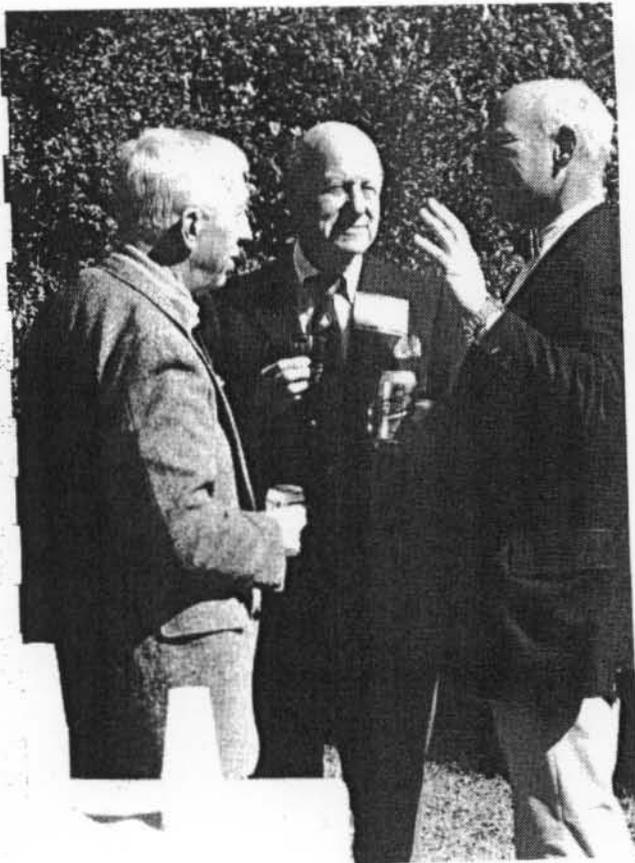


ASSOCIATES DAY OF SCIENCE HELD OCTOBER 9



The Day of Science was a big success this year, thanks to interesting speakers, a beautiful day, good food, and a lot of hard work by the WHOI Development Office, Administration, and Services. PHOTOS: Over 400 Associates, guests, and WHOI staff attend a catered buffet luncheon behind the Fenno House (left); Brian Howes answers questions after his lecture (bottom left; other speakers were Bob Gagosian, Jules Jaffe, and Ken Buesseler); and a guest poses a question after one of the lectures (below). On the facing page, Lon and Esther Hocker smile after receiving a 25-Year Associates Membership Award from Associates President Spike Coles (top left); there was plenty for everyone as Associates worked their way through the food lines (top right); Hoyt Watson, Townsend Horner, and Charles F. Adams chat at the event (bottom left); and former WHOI Director and President Paul Fye enjoys the sunshine with Associates Tom Westcott and John Phillip Clarner (bottom right). Photos by Rob Brown and Shelley Lauzon.



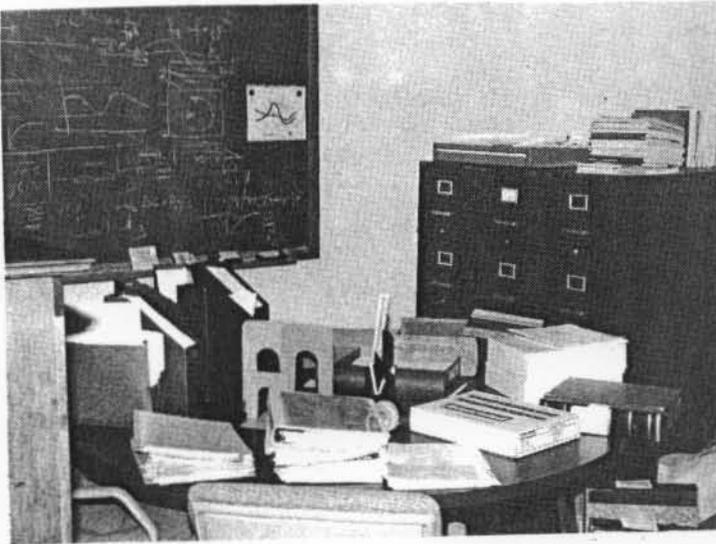
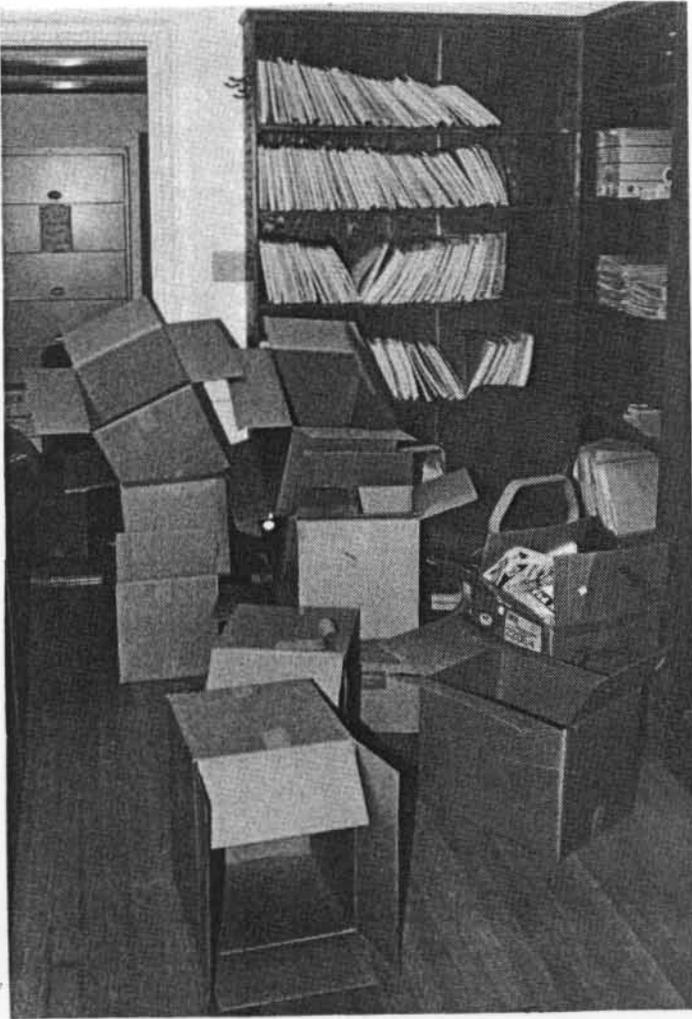


WHOI OFFICE SHUFFLE

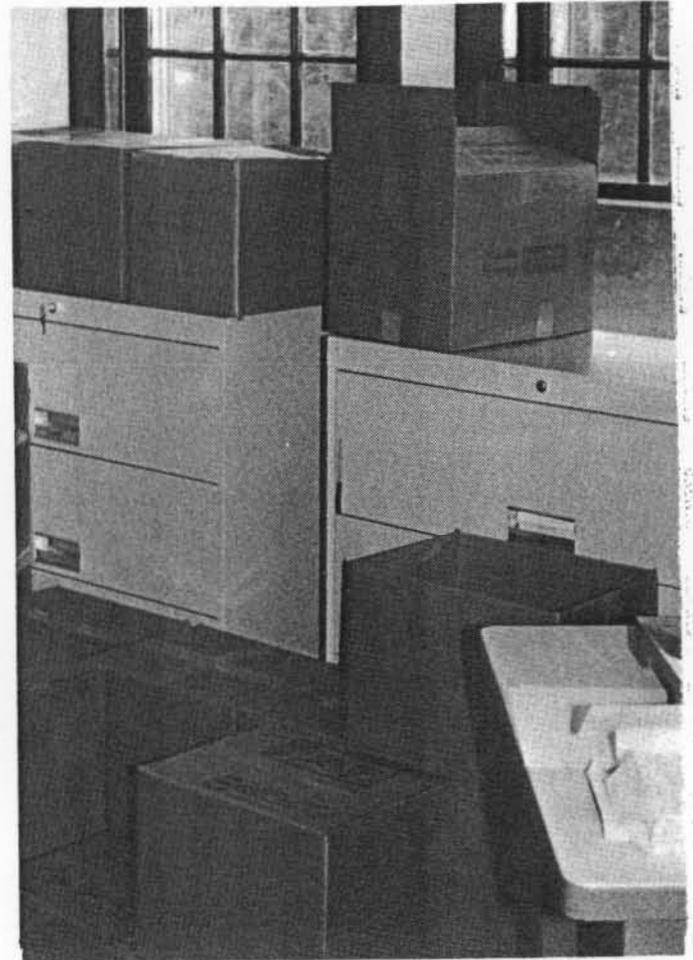
Furniture and file cabinets were hauled around the Institution during October as the Directorate and the Development Office moved into new quarters.

Bell House. Gary Walker and Carole Merson moved into two offices on the second floor of Bell House. Bob Gagosian moved to an office next to the Staff Council Room on the first floor, and Mildred Teal's office is to the right of the front door. Derek Spencer, Hartley Hoskins, and Janet Johnson all moved to the right wing of the building.

Fenno House. At Fenno, John Steele, Charlie Innis, Joan Watkins, and Judy Cooper moved into a suite of offices at the head of the stairs on the second floor. The Development Office now occupies offices to the right on the second floor. All telephone numbers remain the same.



PHOTOS: Every available space was used as Fenno and Bell Houses' new residents settled in. Photos by Rob Brown.



ANOTHER BUSY SEASON AT THE EXHIBIT CENTER

When the doors closed October 9 to end the 1987 summer season at the WHOI Exhibit Center at Endeavor House, more than 20,000 visitors had viewed displays on Institution research and education.

A special updated TITANIC display on the basement level and the main Institution display upstairs attracted visitors from every state and more than thirty foreign countries. Institution T-shirts, baseball caps, and decals were popular items, as were TITANIC-related publications and materials.

Members of the Associates Program once again generously volunteered their time and talents to staff the TITANIC display seven days a week and provided Sunday afternoon relief for college student Susan Cherkofsky, who has worked at the Exhibit Center for two seasons. Associate Volunteers also provided invaluable assistance in the Publications and Information Office, labeling slides and photographs, organizing media kits and other material for the A-II Japan visit in August, and assisting with a variety of office tasks. Over 40 Associates participated in the program; Volunteers were honored at an appreciation lunch October 28 at Carriage House.

Following some remodeling this winter, the Exhibit Center will reopen next June with updated displays and visual presentations.

TWO WHOI WOMEN SCIENTISTS HONORED

Deb Smith, an Assistant Scientist in G&G, recently received a Young Investigator Award from the Office of Naval Research. Deb was the only oceanographer to win one of the awards this year; her proposal was one of only 15 selected from over 300 submitted.

Ellen Druffel has received a Visiting Professorship for Women Award from the NSF. Ellen, an Associate Scientist in the Chemistry Dept., was one of 24 recipients of the award this year.

CPR CLASSES

CPR classes will be offered from 1:00 to 4:00 on Dec. 8, 10, and 15 at Redfield Auditorium. The classes will be taught by Hovey Clifford and are open to WHOI personnel and the general public. If you are interested in taking the classes, contact the safety office.

WHOI WIVES' COFFEE SOCIAL

The first WHOI Wives' Coffee and Doughnut Social was held on Tuesday, Oct. 13, from 10 to 11:30 a.m. in the Fenno House living room. These socials will continue monthly through May on the second Tuesday of each month. All wives, children, friends, and especially newcomers are welcome. For information, call Marge Frisk (563-5308), Karen Dacey (540-7419), or Sue Casey (564-5644).

NAVAL COMMAND COLLEGE VISIT

Senior Naval Officers representing 38 countries visited WHOI on September 16 to attend lectures on oceanography and tour the Institution. The officers are all students of the Naval Command College, a special program of the U.S. Naval War College in Newport, R.I. Each officer is hand-picked by his respective navy to attend the year-long program. PHOTO (left): Hagen Schempf teaches an eager group of officers how to drive JASON JR. in the test tank at WHOI's Coastal Research Laboratory. Photo by Rob Brown.



DIRECTOR CELEBRATES 10TH ANNIVERSARY
AT WHOI

A small group of colleagues and staff gathered in the former Staff Council Room (Clark 206) on October 2 to informally celebrate the tenth anniversary of John Steele's tenure as Director of the Institution. Dr. Steele became the Institution's fifth Director October 3, 1977, succeeding Dr. Paul M. Fye, who had served as Director since 1958.

Prior to his appointment as WHOI Director, John Steele had served from 1973 to 1977 as Deputy Director of the Marine Laboratory of the Department of Agriculture and Fisheries for Scotland. He was a member of the staff of the Aberdeen laboratory for 26 years.

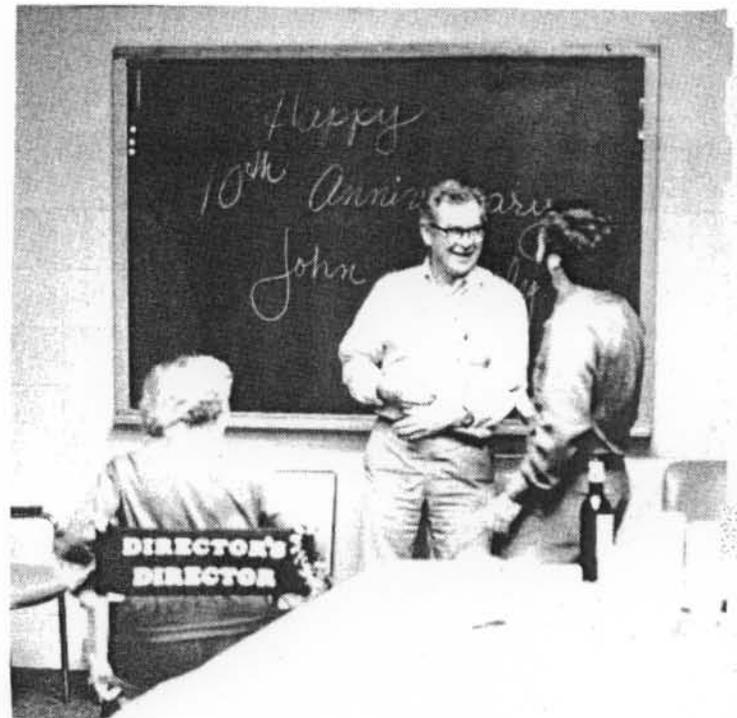
A native of Edinburgh, John Steele was educated at University College in London, where he received his Bachelor of Science degree with first class honors in mathematics in 1947 and his Doctor of Science degree in biology in 1963. His ties to Woods Hole began in 1958, when he came to the Institution as a visiting research fellow. Between 1959 and 1961, he took part in the Institution's studies in the Sargasso Sea, and he served on the Biology Department Visiting Committees in 1973 and 1975.

Dr. Steele received the prestigious Alexander Agassiz Medal from the National Academy of Sciences in 1973 for his contributions to theoretical and practical studies of the factors controlling primary sea production. In 1980 he was named a Walker-Ames Professor at the University of Washington.

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PHOTOS: Evelyn Steele tries out her Director's chair, one of two Director's chairs presented to the Steeles. Bob Gagosian did the honors on behalf of the assembled staff (above); George Grice, Dave Ross, Bob Gagosian, and Fred Sayles enjoy themselves at the party (bottom left); the Director reads a card from well-wishers. On the wall at left are photographs of the previous WHOI Directors (below). Photos by Shelley Lauzon.



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Well-known throughout the world for his professional activities in marine science, John Steele has applied his training in mathematics to the physical and biological processes of the oceans through his research interest in the dynamics of marine ecosystems. He participated in many of the major international cooperative programs that accompanied the rapid growth of oceanography in the 1960's and 1970's, and he maintains an active interest in research despite his heavy administrative schedule. He is the author of The Structure of Marine Ecosystems (Harvard University Press, 1974), as well as the author or coauthor of more than 80 other scientific publications.

In addition to Institution responsibilities, he serves on numerous boards and committees in the oceanographic community, including the Polar Research Board and the Ocean Studies Board of the National Academy of Sciences, National Geographic Society's Committee for Research and Exploration, and the Space and Earth Science Advisory Committee of the NASA Advisory Council. He is Chairman of the Board of Governors of Joint Oceanographic Institutions, Inc. (an organization of the ten largest marine research laboratories in the U.S.), and a member of the Board of the Massachusetts Center of Excellence in Marine Science. He is a Fellow of the Royal Society of London, the Royal Society of Edinburgh, the American Academy of Arts and Sciences, and the American Association for the Advancement of Science. He also serves as a Trustee of the Bermuda Biological Station for Research, is a member of the Corporation of the Marine Biological Laboratory, a member of the University Corporation for Atmospheric Research, and U.S. Delegate to the International Council for the Exploration of the Sea.

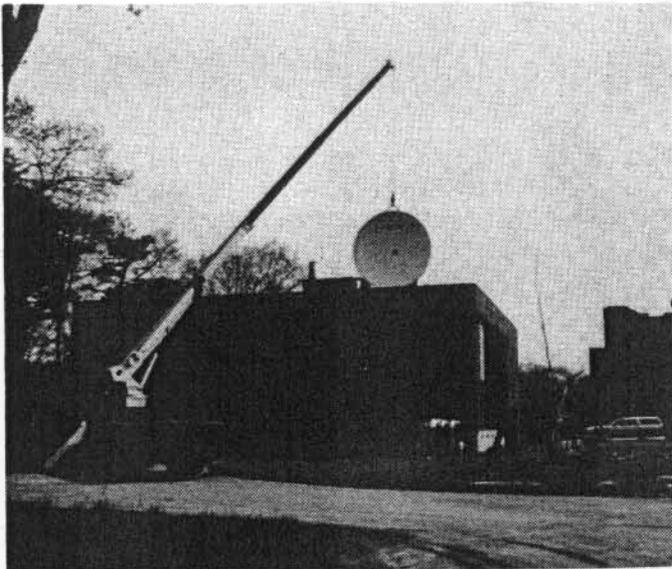
The Director and Evelyn reside in Meteor House on Challenger Drive. Their son Hugh and his wife Jenny live in England.



NATIONAL GEOGRAPHIC FILMS IN WOODS HOLE

National Geographic film crews were busy around Woods Hole in September and October shooting a special update report on the TITANIC. The feature aired October 25 on National Geographic's "Explorer" program. The last "Explorer" featuring WHOI and TITANIC aired in March and earned the highest ratings of any cable television show in history. PHOTOS: A cameraman sets up a shot (above) at Nobska Lighthouse with "Explorer" host Tom Chapin (Photo by Rob Brown); a National Geographic film crew prepares to shoot (below) behind WHOI's Coop building (Photo by Shelley Lauzon).





NEW SATELLITE DISH JOINS WHOI TO USAN

A new satellite earth station was installed atop the Central Heating Plant on the Quissett Campus in August. The dish, which is operated by the Information Processing and Communications Laboratory, will communicate with satellite SBS4. Its installation enables WHOI to become part of the University Satellite Network (USAN), which links seven educational institutions, including WHOI, to each other and to the National Center for Atmospheric Research (NCAR) in Boulder, Colorado.

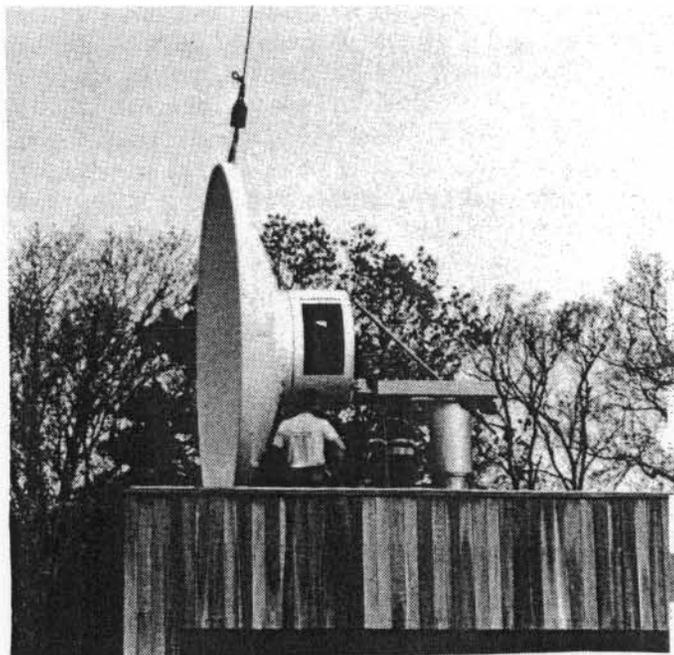
USAN is a star-shaped network with NCAR at its center. It provides communication links between NCAR, WHOI, Oregon State University, and the Universities of Miami, Maryland, Illinois Wisconsin, and Michigan, as well as several other institutions nationwide. The NORDA Institute for Naval Oceanography and the Naval Research Lab (NRL) will soon be added to the network.

USAN is a pilot program being evaluated for use as a possible technology for the interconnection of universities on the National Science Foundation Network (NSFnet). NSFnet connects the nation's six supercomputer sites. WHOI personnel now have access to these supercomputers via the new earth station and USAN.

WHOI's participation in the USAN program will allow our personnel to gather and distribute data, text, and programs nationwide. Other advantages include expanded high-speed network access to remote computer facilities from personal and central computers at WHOI, access to more computer power via the NSF-funded supercomputer centers, the elimination of some long distance phone charges, and increased professional communication through the use of electronic mail and nationwide bulletin board systems.

WHOI personnel can access USAN by connecting their computers to the campus network (WHOInet). At present, the Bigelow, Blake, and Clark Buildings are connected to WHOInet, and soon the Smith Building will be connected. Other WHOI buildings are scheduled for connection to WHOInet in the future.

For more information on the satellite earth station or to find out how you can become part of WHOInet, contact Andy Maffei, x2764.



PHOTOS: A crane supports the new dish on the roof of the Central Heating Plant (upper left), as workmen on the roof connect it to its pedestal (above). Photos by Shelley Lauzon.

BENEFIT BRIEFS

TIAA/CREF

Beginning on October 1, 1987, participants commencing income must complete and return all required forms to TIAA/CREF prior to the date benefits are to begin. CREF unit values for 1987 are as follows:

| | |
|----------|-----------|
| January | \$33.5379 |
| February | 34.9934 |
| March | 36.0264 |
| April | 36.0189 |
| May | 36.2885 |
| June | 37.7418 |
| July | 39.3264 |

If you would like to change your TIAA or CREF allocation, you can call

1-800-842-2252.

This is the only way you can change your allocation.

Medical Insurance

Under the Consolidated Omnibus Reconciliation Act of 1986 (COBRA), effective January 1987, insured employees and their covered dependents who lose coverage because of certain qualifying events may continue their coverage in the Institution's group plan by paying the full premium cost for a minimum of 18 months up to a maximum of 36 months depending on reason for lost coverage.

AD&D Insurance

The Benefits Office is accepting requests for increases in Accidental Death and Dismemberment Insurance up to 10 times base salary to a maximum of \$300,000. There is no proof of insurability requirement and no deadline for accepting changes.

If you have questions in any of these areas, please contact Terri Monroe, x2706.

CHANGES IN LEAVE

The Personnel Practices and Procedures Manual has been revised in the following two areas:

Sick Leave. With the supervisor's prior approval, an employee can now use up to 3 days per year of accrued sick time for unexpected events, such as cases of illness in the family.

Emergency Leave. This category of paid leave will now be used for absences associated with a death in the immediate family or household. There is no longer a cap to the total number of days each year that can be used for bereavement leave, although general guidelines are included in the policy statement. The only other time emergency leave is used is when the Institution officially closes because of inclement weather.

WHOI HOUSING OFFICE SERVICES

The Institution's Housing Office has received many requests for information about the services it provides. Briefly, WHOI Housing Coordinator Mary Jane Tucci assists with providing information to both new and established WHOI personnel regarding available living accommodations in the community. She is a great source for listings of houses, apartments, rooms, etc. Mary Jane welcomes listings from everyone, including WHOI employees wishing to sell their property. In addition, she manages the use of all Institution housing units. If you have a listing to share or if you need information, please contact the Housing Office, x2389.

NEW WOMEN'S COMMITTEE ELECTED

New Women's Committee members were recently elected to serve from October 1987 to September 1988. Co-chairpersons are Susan Kadar and Laurie Murphy, the secretary is Judy McDowell, and other committee members are Ellyn Montgomery, Alice Tricca, and Donna Carson.



The KNORR pulls away from the WHOI dock on a year-long cruise that will take it to South America, Africa, the Mediterranean Sea, the Black Sea, and other points before it returns to Woods Hole in 1988. (Photo by Rob Brown.)

Oceanographic Ship Notes

KNORR DEPARTS ON YEAR-LONG CRUISE

The KNORR departed Woods Hole October 30 on a year-long cruise to South America and Africa and into the Mediterranean and Black Seas. Return to Woods Hole is expected in late October 1988.

KNORR will first travel to St. George's, Bermuda, to embark the science party, then head south for four legs of the South Atlantic Ventilation Experiment (SAVE). Port calls will be made at Recife and Rio de Janeiro, Brazil, and at Abidjan, Ivory Coast, in west Africa.

KNORR will then transit to Cadiz, Spain, in early 1988 to begin a series of cruises into the Black Sea, with port calls at Istanbul and Izmir. Sus Honjo of the Geology and Geophysics Department will serve as chief scientist for one leg of the Black Sea tour, studying sedimentary evolution through particle fluxes and sediment cores. Holger Jannasch of the Biology Department will head a cruise to conduct microbiological

studies. Hugh Livingston, Ed Sholkovitz, Ken Buesseler, and colleagues in the Chemistry Department will collect and analyze Black Sea water samples for radioactive fallout from the Chernobyl nuclear power plant disaster. Other work will focus on collection of hydrographic and other tracer data to model their input and mixing rates and determine the distribution of dissolved and particulate organic compounds.

Following the Black Sea work during April through July, KNORR will head for Naples, Italy, to test the new dynamic positioning system aboard the ship and to conduct sea trials for the JASON vehicle under development in the Deep Submergence Laboratory. The ship will then proceed to the Greenland Sea for tomography studies until early October. On the way back to Woods Hole the ship will stop on the Nova Scotian Rise to pick up a High Energy Benthic Boundary Layer Experiment (HEBBLE) mooring.

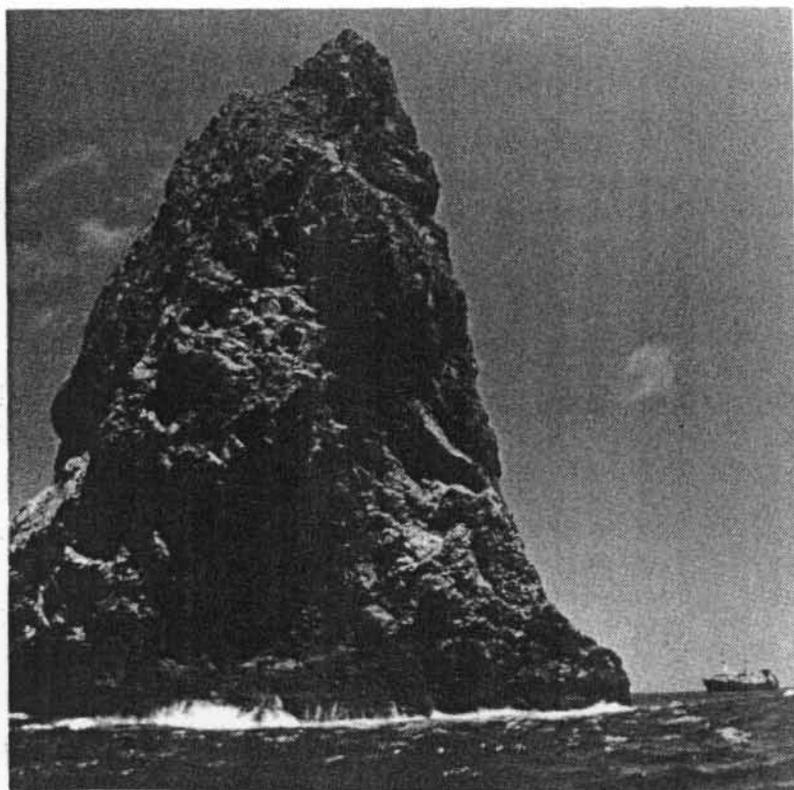
OCEANOGRAPHIC SHIP NOTES (cont'd)

ATLANTIS II CRUISES OFF CALIFORNIA COAST

ATLANTIS II left San Diego October 27 for Leg XXIV of Voyage #118. Scientific activities on this cruise to study the mechanisms and rates of sediment mixing and the interaction of organisms and sediments included 14 ALVIN dives at two locations (the Santa Catalina Basin and the San Diego Trough) to collect samples and recover/implant instruments. The ship returned to San Diego November 11 and will undergo repairs and maintenance through the end of the year.

OCEANUS UNDERTAKES VOYAGE #195

OCEANUS left Woods Hole October 27 for Voyage #195. This cruise, conducted for the Physical Oceanography Dept., was to recover and redeploy the Autonomous Listening Station (ALS) moorings of the Newfoundland Basin Circulation Experiment. The "fast-fish" profiling vehicle was also tested during the cruise. The vessel returned November 15 and will depart again on November 21.



ONR OCEANOGRAPHIC RESEARCH TOWER AVAILABLE OFF SAN DIEGO COAST

The ONR Oceanographic Research Tower has been transferred from the Naval Ocean Systems Center to the Office of Naval Research and is available for scientific research projects. Operation and maintenance of the tower is being handled by the Marine Physical Laboratory at Scripps.

The tower is located in 20 meters of water, about 1.5 km offshore from Mission Beach, San Diego. It is far enough from shore to provide a natural, open sea environment, yet it can be easily reached by boat. The tower, which includes enclosed lab space as well as external structures for rigging instruments and electrical power, can be used for studies of the atmosphere, the shallow water ocean environment, the sea floor, and for equipment evaluation.

For further information, contact Hans Dolezalek, OCNR Code 112D1, at (202)696-4025, or Charles Bishop, MPL/SIO, at (619)534-1795.

THE MAIL COMES THROUGH!

A candidate for this year's strangest address appeared on a letter sent to G&G Dept. Chairman Dave Ross:

Marine Biological Laboratory
Sea Grant Program, MIT
Woods Hole oceanic Institution
Woods Hole, MA 02543

THE A-II MEETS LOT'S WIFE

Craig Dickson took this photograph (left) of the ATLANTIS II in the western Pacific in August. The rock formation overshadowing A-II is called "Sofu Gan" in Japanese (or "Lot's Wife" in translation). Lot's Wife is part of an archipelago of 15 islands, known as the Bonin Islands, located about 500 miles south of Japan in the Mariana Trough.

People

BRIAN HOWES BECOMES ASSISTANT SCIENTIST

Brian Howes, who joined the Institution in 1984 as a Postdoctoral Investigator, was promoted to Assistant Scientist in the Biology Dept. in March. He has been a Visiting Investigator since January 1986. His research interests are biogeochemistry, bioturbation, biophysical ecology, wetland ecosystem structure and function, plant-sediment interactions, nutrient cycling, and plant production.

PURDY PROMOTED TO SENIOR SCIENTIST

G. Michael Purdy, Associate Scientist in Geology & Geophysics since 1979, was promoted to Senior Scientist in April. Mike joined the Institution as a Postdoctoral Scholar in 1974 and became an Assistant Scientist in 1975. He is interested in seismic structure of the ocean lithosphere and the use of seismic methods to study oceanic crust, experimental methods of producing high resolution determinations of seismic structure in the deep ocean, the use of microearthquake data to elucidate crustal accretion processes, and the structure of mid-ocean ridges, fracture zones, and passive continental margins. Mike is also a recipient of one of two W. Van Alan Clark Chairs for excellence in oceanography.

DEBORAH SMITH PROMOTED TO ASSISTANT SCIENTIST IN MAY

Deborah Smith, who has served the Institution as Postdoctoral Scholar and Postdoctoral Investigator, has been promoted to Assistant Scientist in the Geology & Geophysics Dept. Her research interests include the size distribution and density of seamounts in the ocean, seafloor characteristics, and mantle dynamics.

ANDERSON AWARDED TENURE

Don Anderson of the Biology Department was awarded tenure with the Institution in March. Don began working at WHOI in August 1978 as a Postdoctoral Investigator, was promoted to Assistant Scientist in August 1979, and became an Associate Scientist in September 1983.

Don earned his B.S., M.S., and Ph.D. degrees all from M.I.T. His research interests are phytoplankton ecology and resting stages, trace metals, and toxic dinoflagellates. He is the author or coauthor of 41 scientific publications.

TUCHOLKE PROMOTED TO SENIOR SCIENTIST

Brian E. Tucholke was promoted to senior scientist in Geology & Geophysics in May. Brian, who joined the Institution as a Summer Graduate Fellow in 1969, has since served as Graduate Teaching Assistant, Graduate Research Assistant, and Associate Scientist. His research interests are sedimentology, acoustic stratigraphy and rock stratigraphy applied to paleoceanographic studies, structural and tectonic evolution of the Atlantic Ocean, benthic boundary layer processes, and the physical properties of sediments.

HELFRICH BECOMES ASSISTANT SCIENTIST

Karl Helfrich was promoted to Assistant Scientist in Physical Oceanography in July, after serving the Institution as Postdoctoral Scholar and Postdoctoral Investigator since 1985. His research interests are theoretical and experimental geophysical fluid dynamics, stratified flows, and geological fluid mechanics.

LENTZ BECOMES ASSISTANT SCIENTIST

After roughly two years as Visiting Investigator in the Physical Oceanography Dept., Steven Lentz became Assistant Scientist in July. His research interests are the physical oceanography of continental shelves and surface boundary layer response to atmospheric forcing.

CHAPMAN APPOINTED ASSOCIATE SCIENTIST

David Chapman of Physical Oceanography was appointed Associate Scientist in July. Since coming to WHOI in 1981, Dave has served as Postdoctoral Scholar, Postdoctoral Investigator, and Assistant Scientist. He is particularly interested in the dynamics of the shelf/slope front, the influence of deep-sea flows on shelf and slope circulation, and analytical and numerical modeling of continental shelf and slope dynamics and the analysis of related observations.

DAVID JOHNSON ORDAINED

Dave Johnson of the Geology and Geophysics Dept. was recently ordained a Minister in the Unitarian Church. Dave served as Assistant Scientist and Associate Scientist from 1971 until 1983, when he became a Visiting Investigator in order to pursue full-time studies at Harvard Divinity School. He earned his Master of Divinity degree in June 1987. Dave recently accepted a position as Minister of Shawnee Mission Unitarian Church in Overland Park, Kansas. However, he will remain a Visiting Investigator at WHOI and will be involved in a major project on sedimentation and circulation in the central Indian Ocean in 1988.

PROMOTIONS AND OTHER PERSONNEL CHANGES

Susan K. Driscoll (Controller) from Payroll Assistant to Sr. Accounting Assistant.
Brian L. Howes (Biology) from Visiting Investigator to Assistant Scientist.
Maxine M. Jones (Ocean Engineering) from Research Associate to Research Specialist.
Alice I. Tricca (Publications & Information) from Secretary II to Staff Assistant III.
Jack H. Archer (MPOM) from MP&OM Fellow to Sr. MP&OM Fellow.
Dale D. Goehringer (Biology) from Research Assistant III-Biology to Research Associate.

George P. Knapp (Physical Oceanography) from Research Assistant III-Oceanography to Sr. Research Assistant.
G. Michael Purdy (Geology & Geophysics) from Associate Scientist to Senior Scientist.
Deborah K. Smith (Geology & Geophysics) from Postdoctoral Investigator to Assistant Scientist.
Ann C. Henry (Ocean Engineering) from Staff Assistant III to Executive Assistant I.
Cindy L. Leonard (Ocean Engineering) from Secretary II to Staff Assistant II.
Brian E. Tucholke (Geology & Geophysics) from Associate Scientist to Senior Scientist.
David C. Chapman (Physical Oceanography) from Assistant Scientist to Associate Scientist.
Robert Chase (Ocean Engineering) from Research Specialist to Adjunct Scientist.
Sheila M. Griffin (Chemistry) from Research Assistant III-Chemistry to Research Associate.
Karl R. Helfrich (Physical Oceanography) from Postdoctoral Investigator to Assistant Scientist.
Steven J. Lentz (Physical Oceanography) from Visiting Investigator to Assistant Scientist.
David A. Glover (Chemistry) from Postdoctoral Investigator to Research Associate.
Monika Grinnell (Controller) from Sr. Accounting Assistant to Sr. Budget Analyst.
Theresa G. Monroe (Personnel) from Benefits Administrator to Manager of Benefits.
Ellyn T. Montgomery (Physical Oceanography) from Research Assistant II-Oceanography to Research Assistant III-Oceanography.
Stephen A. Swift (Geology & Geophysics) from Postdoctoral Investigator to Research Associate.
Daniel J. Simpson (Chemistry) from Postdoctoral Scholar to Postdoctoral Investigator.



Photo by Rob Brown

ROSEMARY MARSON JOINS DEVELOPMENT OFFICE

Rosemary Marson became the Institution's newest Senior Development Officer on July 13. Working with Paul Dudley Hart, she will coordinate and write proposals to corporations and foundations and assist scientists in doing so. She will also be involved with seeking new sources of funding for WHOI projects.

"I'm looking forward to the challenges of raising funds for future oceanographic investigations," she says. "I'm also enjoying learning about marine science."

Rosemary comes to the Institution from Mt. Holyoke College in South Hadley, where she served as Associate Director of Development. Prior to that, she worked for 6 years in development at Rockefeller University in New York City.

Originally from Michigan, Rosemary earned a B.S. in Mathematics and an M.A.T. in Education both from Siena Heights College in Adrian, Mich. She later taught for 3 years at Assumption College in Pampanga Province in the Philippines, where she learned to speak a little Tagalog, the national language.

Rosemary loves her new surroundings on Cape Cod. "It's such a beautiful place," she says. "I think the sea engenders a special wholesomeness in people. Most people I've met at the Institution seem so dedicated to protecting the ocean and the environment. I'm looking forward to learning more about the scientists and their research, and I hope to be able to go out on a cruise one day."

P.I.O.'s NEW STAFF MEMBER

Learning about the Institution's research and education programs and writing about those programs is the task of the Publications & Information Office's newest staff member, Rob Brown.

Rob joined the staff September 8 as Publications and Information Writer. He will focus on science writing, researching projects underway at the Institution and writing about them in Institution publications and for outside needs. He will also be producing the Institution Newletter, which is being redesigned and transferred from the Wang system to the Public Information Office's new Macintosh desk-top publishing system.

Prior to joining the Institution staff, Rob worked as a writer and editor for the National Wetlands Research Center, part of the U.S. Fish and Wildlife Service, in New Orleans. While at the Center, he was editor of a book written by WHOI Senior Scientist John Teal for the Fish and Wildlife Service, and he also contributed to the Fish and Wildlife Service's multi-volume background summaries to the Federal Coastal Barrier Resources Act now before Congress.

He received a B.A. in English from the University of New Orleans in 1981, and is pursuing a Master's degree in English, which he hopes to finish in Boston in the next few years.

He joins Alice Tricca, Nancy Green, and Shelley Lauzon in the Coop Building.



Photo by Shelley Lauzon

KAREN RAUSS APPOINTED SPECIAL ASSISTANT TO THE DIRECTOR

"My main goal is to enhance the general working and academic environment for everyone at WHOI. I hope to do this by encouraging improved communication at all levels within the Institution."

Until July, Karen Rauss served as WHOI's Manager of Benefits and Affirmative Action. Her new appointment, Special Assistant to the Director, expands and refocuses the affirmative action portion of her old position and the Institution's commitment to equal employment opportunity and affirmative action issues. She will be responsible for initiating and responding to all Institution affirmative action issues and will advise the Director on employee and student relations, including efforts to increase the diversity of both the workforce and the student body.

"I think that assigning someone to deal exclusively with employee and student concerns, including affirmative action concerns, well illustrates the Institution's commitment to these philosophies," Karen says.

Karen began doing general personnel work, including affirmative action, in 1972 in Detroit. "The early 70's were a hot time for affirmative action," she says. From 1977 until she came to WHOI in 1985, Karen worked as a Benefits Administrator for the Fruehauf Corporation, where she was involved with EEO and affirmative action compliance from a benefits standpoint.

As part of her overall plan to increase communication and cooperation within the Institution, Karen is planning a "Climate Assessment Study" for early next year. The study, to be conducted at least partially by an outside consulting firm, will determine issues of importance to WHOI employees and students, and hopefully will encourage dialogue to find solutions to the problems brought up.

There are also plans for special speakers, such as Dr. Sylvia Earle who spoke at WHOI on August 11 about her experiences as a woman scientist. In addition, there will be speakers and



Photo by Rob Brown

seminars on sexual harassment, women's issues, and other relevant topics throughout the year, as well as Institution involvement in Tech to the Future and Black History Month.

One less touted but very important aspect of Karen's new position is her role as WHOI's Substance Abuse Coordinator. "I'm not a professional counselor," she says, "but I can guide people to proper help. If an employee has a problem, particularly one that is drug or alcohol related, we encourage that person to voluntarily go for help. I've also spoken with several people lately who have come in seeking help for family members."

Beginning this month, Karen will keep an office on both campuses so she is easily accessible for employees and students. Her main office will be in Clark, Room 218, until the new wing is built. In the village, her office will be downstairs in Nobska House across from the Housing Office.

"I'm very excited about my new appointment and its creative nature," Karen says. "I want to be accessible to everyone, and I hope to help encourage communication between all members of the staff."

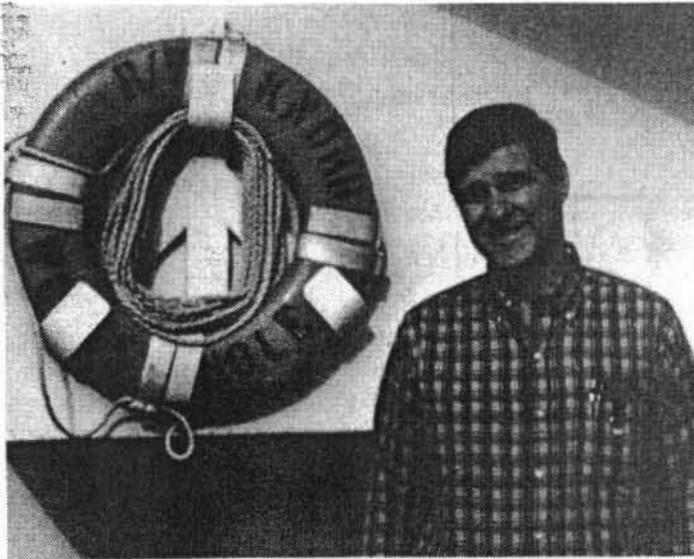


Photo by Rob Brown

COBURN APPOINTED MANAGER OF MARINE OPERATIONS

The Institution announces the appointment of Captain Joseph L. Coburn, Jr., as Manager of Marine Operations. Joe, a retired Coast Guard Captain, comes to us from J.J. McMullen Co., a naval architecture and engineering firm. He is responsible for the management and operation of the Institution's ships.

Joe is a graduate of the U.S. Coast Guard Academy and holds a Masters Degree from MIT. He taught at the Academy from 1963 to 1967, then served as Chief of the Coast Guard Marine Safety Projects Branch. Later, he became Industrial Manager of the Coast Guard Shipyard in Curtis Bay, Maryland.

Following retirement from the Coast Guard, he became Vice President of Arctec, Inc., an engineering consulting firm, and manager at Engineering Computer Opteconomics, Inc. He is a member of the Society of Naval Architects and Marine Engineers, the American Society of Naval Engineers, and the Explorers Club.

NEWSLETTER NOTICES

If you have any news of interest to the Oceanographic community, please send it to Rob Brown in the Coop Building or call x2271. Thanks!

FUN WITH MICK AND MINN

We are pleased to announce that the Institution has become a member organization in Walt Disney's Magic Kingdom Club. WHOI employees and their families can now enjoy reduced prices on tickets, exclusive vacation plans, and discounted accommodations. In addition, WHOI club members can obtain discounts nationwide with National Car Rental and Hilton Hotels, and have access to vacation packages to Hawaii, the Pacific Northwest, and Vail, Colorado. Any employee, student, or retiree is eligible for a membership card upon request. Contact the Personnel Office at Nobska House for further information.



COTTER CELEBRATES 30 YEARS AT WHOI

Jerry Cotter celebrated thirty years of WHOI service (1957-1987) on October 20 at a party in his honor in the Smith Conference Room. Jerry, who is boatswain on the KNORR, received several gifts, including a bouquet of flowers! PHOTO (above): Jerry talks with John Steele at the party. Photo by Rob Brown.

NEW ADDITIONS TO WHOI FAMILIES

Julie and Chippy Andrade are the parents of a boy, Tyler Matthew, born at Falmouth Hospital on March 29. Julie was a Staff Assistant in Personnel.

Thomas Dean Dacey, third son of Karen and John Dacey, was born May 31 in Boston. John is an Associate Scientist in Biology.

Christopher Harris, son of Debra (Harris) Dean, Accounting Assistant, and her husband Kevin, was born June 11 at Falmouth Hospital.

Bryan and Doreen Way had a boy, Bryan Scott Way, Jr., at Jordan Hospital, Plymouth, on July 16. Bryan, Sr., is a Research Assistant in Physical Oceanography.

John Bullister and his wife Catherine Livingston had their first child, Matthew Logan Bullister, at Jordan Hospital on July 23. John is an Assistant Scientist in Chemistry.

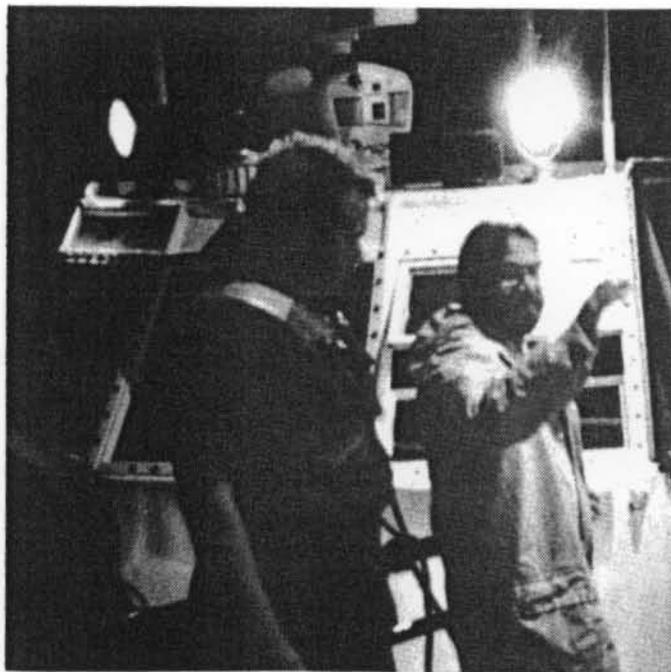
Dominique Wilder Maffei, second child of Cynthia Turner-Maffei and Andrew Maffei, was born August 11 at Cape Cod Hospital. Andy heads the Information Processing and Communications Lab.

Brian Joseph Guest, Jr., was born to Donna and Brian Guest on August 26 at Cape Cod Hospital. Brian, Sr., is a Research Assistant in Physical Oceanography.

Jeanne and Rich Young had their first child, Eric Richard Young, on September 24 at Jordan Hospital. Jeanne is a Staff Assistant in Administration.

AGU MEETING

The Fall Meeting of the American Geophysical Union (AGU) will be held December 7-11 in San Francisco. More than 30 Institution staff members are scheduled to make presentations on their research activities during the week-long meeting.



Bruce Keafer (right) is congratulated as he heads for shore via Coast Guard transport. Photo by Don Anderson.

A SPECIAL VOYAGE

Bruce Keafer, Research Assistant in Biology, thought there was plenty of time for a five-day cruise aboard the ENDEAVOR before his wife, Ann, had their first child. In fact, his work with Don Anderson and Peter Franks in the southern Gulf of Maine had gone smoothly. But just before midnight on August 9, as the ENDEAVOR journeyed homeward, she was contacted by the Boston Marine Operator. Bruce was quickly roused from bed to discover that Ann had gone into premature labor and at that very moment was in Jordan Hospital in Plymouth!

The ENDEAVOR promptly radioed the U.S. Coast Guard station in Sandwich, and at 3 a.m. on August 10, Bruce jumped from the ENDEAVOR onto a Coast Guard vessel waiting for him in the Cape Cod Canal. He was then rushed to shore where friend and co-worker Dave Kulis was waiting, engine running, to speed him to Plymouth. Kristen Ann Keafer, 5 lbs 2 oz, was born that evening after a very long labor, but one in which proud husband and father Bruce was there to lend support. All are doing well.

New Faces

May-October 1987



ALEXANDRA PETROVITZ
Staff Assistant
Geology & Geophysics
Swift 104, x2398
D. Ross



PAMELA RUCHSER
Staff Assistant
Purchasing
GEOSECS, x2664
M. Moniz



STEPHEN C. TERRY
Electrician
Facilities
Iselin 142, x2483
J. Dufur, Jr.



CAROL ARNOSTI
Student
Chemistry
Clark 424, x2890
M. Altabet



MICHAEL CARUSO
Research Associate
Physical Oceanography
Clark 354B, x2802
K. Kelly



BRENDA R. KULVETE
Payroll Assistant
Controller, x2377
Challenger Annex
L. Murphy



MICHAEL W. BYMAN
Student
Ocean Engineering
Bigelow, x6055
S. Williams



DANIEL T. COBRA
Student
Ocean Engineering
Bigelow 406, x2207
J. Jaffe



CAROL ANN KAUFMAN
Secretary
Geology & Geophysics
McLean 202, x2777
C.L.R. Smith



ROBERT PRATT
Electrician
Facilities
Iselin 142, x2483
J. Dufur, Jr.



JOHN G. COOKE
Student
Ocean Engineering
Bigelow, x2428
J. Spiesberger



DANIEL T. DiPERNA
Student
Ocean Engineering
Bigelow G-7, x2422
S. Rajan



NATHALIE WASER
Student
Chemistry
Clark 4, x2552
J. Bullister



THOMAS EHRENDORFER
Student
Geology & Geophysics
Clark 1, x2503
D. Ross



KATHLEEN LEDYARD
Student
Chemistry
Clark 447, x2559
M. Bacon



ZHENGYO LIU
Student
Physical Oceanography
Clark 322A, x2540
W. Young



ROSEMARY MARSON
Proposal Writer/Admin.
Development
Fenno 2, x2545
P. Dudley Hart



CECILIE MAURITZEN
Student
Geology & Geophysics
Clark 339B, x2797
M. McCartney



DEBORA R. MORGAN
Executive Assistant I
Marine Policy Ctr.
Crowell House, x2216
J. Broadus



ROBERT G. SPENLE
Painter
Facilities
Smith 121, x2211
E. Phares



CARL T. FRIEDRICHS
Student
Geology & Geophysics
Clark 218B, x2467
D. Aubrey



TIMOTHY M. HAWLEY
Editorial Assistant
OCEANUS Magazine
Coop, x2386
J. Hain



MARTHA T. O'NEIL
Student
Phys. Oceanography
Clark 320, x2810
J. Price



GREGORY M. VAUGHN
Student
Ocean Engineering
Blake Trailer, x2652
D. Yoerger



WILLIAM HERSEY, III
 Research Engineer
 Ocean Engineering
 Blake 1, x2653
 R. Ballard



FRANZ S. HOVER
 Student
 Ocean Engineering
 Blake Trailer, x2652
 D. Yoerger



JUANITA P. WILLIAMS
 Secretary
 Geology & Geophysics
 McLean 200, x2777
 R. Smith



JOHN H. TROWBRIDGE
 Assistant Scientist
 Ocean Engineering
 Bigelow 105, x2296
 A.J. Williams, III



LISA JOSEPH
 Printer's Assistant
 Graphic Services
 Blake 104, x2256
 M. Hickey



BARBARA E. ROSENHECK
 Staff Assistant II
 Biology
 Shiverick, x2571
 W. Watkins



JAMES D. McLAREN
 Student
 Physical Oceanography
 Clark 328, x2532
 R.X. Huang



WILLIAM MARTIN
 Assistant Scientist
 Chemistry
 Clark 448, x2836
 F. Sayles



WILLIAM S.D. WILCOCK
 Student
 Geology & Geophysics
 Clark 118, x2838
 M. Purdy



LINDA L. KING
 Student
 Chemistry
 Fye, x2469
 D. Repeta



ROBERT D. BROWN
 Public Information
 Writer
 Public Info. Office
 Coop, x2271
 S. Lauzon



DARLENE D. JOLIN
 Financial Analyst/
 Auditor
 Controller
 Challenger, x2325
 D. Rudden



EDWARD F. DOW, JR.
Research Assistant
Ocean Engineering
Clark 151, x2878
W. Little, Jr.



ELISA S. LAKE
Library Technician
Library
Clark 131C, x2708
C. Winn



RICHARD KENCHINGTON
MPOM Fellow
Marine Policy Ctr.
Swift House, x2493
J. Broadus, III



MARY C. HARTMAN
Research Assistant
Chemistry, x2350
Redfield 3-32
H. Livingston



LISA M. GARNER
Secretary
Physical Oceanography
Clark 350, x2543
C. Reid



DOUGLAS C. PRASHNER
Assistant Scientist
Biology, x2311
Redfield 3-40
R. Backus



JOSEPH L. COBURN, JR.
Mgr. of Marine Operations
Marine Operations
Iselin, x2624 and x2736
G. Grice



ROBERT L. ELDER
Ocean Engineer
Ocean Engineering
Blake, x2617
C. von Alt



PATRICIA J. DUFFY
Acct. Operations Mgr.
Controller
Challenger, x2361
G. Smith



WHOI ALUMNA WINS AWARD

Lynn Talley, a former student of the MIT/WHOI joint program in oceanography, is one of 200 scientists and engineers this year to receive the Presidential Young Investigator Award from the NSF. The award carries a base grant of \$25,000 a year for 5 years, and the NSF will match industrial support up to \$37,500 a year, bringing the annual support potential to \$100,000. Talley, who has been at the University of California at San Diego since 1984, is particularly interested in ocean circulation and current instabilities.

WHITE SAND CONTEST

Which beach has the whitest, silkiest, tastiest (tastiest?) sand in the world?

Ask Dave Aubrey, who recently judged the Great International White Sand Beach Challenge held by Florida's Manatee County Convention and Visitor's Bureau in Bradenton. Dave studied sand samples submitted from 30 beach resort areas worldwide in search of the whitest and finest sand in five different categories. After testing the samples for over 90 minutes with acids, a jewelers eye, and even taste tests ("I wouldn't want to judge an entry to be the best sand only to find out later that it was salt or sugar," he says), Dave judged the Siesta Key Beach in Sarasota, Florida, to have the whitest and finest beach sand in three of the five categories. In fact, the top eight winning beaches were all contestants from northeast Florida.

Dave has two hopes for next year's contest: that there will be more overseas contestants and that the judge will be allowed to travel to the participating resort areas to sample the sands first-hand!

WHOI PARTICIPATES IN EASTER SEAL SOFTBALL MARATHON

The WHOI team lost their game with Scudder Oil of Sagamore, 6 to 3, but won in their efforts to support local Easter Seal programs. The team, headed by Laurie Murphy raised \$867.50 for the charity. Other WHOI participants included Cheryl Daniels, Mark Hickey, Marty Jeglinski, Wayne Vincent, Bruce Lancaster, Michelle Engemann, Charlie Clemishaw, and Rick Chandler. Special thanks go to Bruce Lancaster for raising \$261.00 in donations.

W-4 REMINDER

Submit a new form W-4 or W-4A, if you have not already, to the Payroll Office as soon as possible. The law required you to file a new form by 1 October '87.

MPC SEEKS OCEANUS BACK ISSUES

The Marine Policy Center thanks Paul Fye, Art Gaines, Holger Jannasch, and Jerome Cotter for their contributions of back issues of Oceanus Magazine for the MPC Reading Room. However, some issues are still missing: Volumes 1-4 (all issues), Vol. 5 (numbers 1 and 2), Vol. 7 (no. 1), Vol. 8 (no. 2), and Vol. 12 (no. 4). If you are interested in donating any of these, please call Porter Hoagland at x2216.

TELEPHONE TIPS Don't Be Overcharged!

Remember to use the 89 WATS line when calling long distance within Massachusetts (area codes 617 and 413). Only use the 85 WATS line for calls out of state (including Alaska and Hawaii). Unfortunately, some employees are using the 85 line--meant exclusively for out-of-state calls--when phoning numbers within Massachusetts. As a result, they are being charged twice: once at the 85 WATS line rate and once at the regular day rate. Hence, project accounts are being charged twice for the same call.

For example, a recent 2-minute phone call to Springfield, Mass.--dialed incorrectly on the 85 WATS line--was billed to WHOI like this:

| | |
|---------------------|---------------|
| 85 WATS line charge | \$.70 |
| regular day rate | 1.07 |
| total | <u>\$1.77</u> |

Had the call been dialed properly, on the 89 WATS line, the charge would have been only 40¢.

Please also note that calls to the 800 area code, or "toll free" calls, are not toll-free unless placed on a regular outside line (dial 9). If calls to 800 numbers are placed on WATS lines, they are charged as regular WATS line calls.

Thank you for helping keep costs down. If you have any questions, consult page 5 of the WHOI Telephone Directory or call Linda Benway, x2251.

NEWS FROM THE STOCKROOM

The stockroom has received a number of new items recently. Some of them are listed below.

78021 Data case, #M6518, 3 1/2" disks
 67064 Alum. foil, Reyn. Wrap, 25 sq ft
 31001 Battery, cal./watch, #1357BP, type J
 31002 Battery, cal./watch, #1386BP, type H
 31003 Battery, cal./watch #1389BP, type M
 31004 Battery cal./watch, #1392BP, type K
 78022 Surge suppressor, 6 outlet, 6' cord
 61269 6 outlet strip, 6' w/cir.breaker
 65112 Dispenser, desk C-39, twin roll
 78018 Ribbon, printer NEC 50 053
 78014 Ribbon, printer NEC 02-50-045
 65454 White board, oak frame, #WOC3648
 65292 Envelope, Tyvek, 10x13, P2-A97P, plain
 71030 Cleaner, hand, Trounce, gallon #21-218
 09317 Nuts, Nylock 3/8"-16, S/S, 18-8
 09318 Nuts, Nylock, 1/2"-13, S/S, 18-8
 65194 Envelope, padded, #3 Jiffy
 79006 Maxell L750, Beta Videotape
 68028 Film, Kodacolor 200 #CB 135-36
 65261 Post-it pad, 3x3, blue A2-654-BE
 65262 Post-it pad, 3x3, pink A2-654-PK
 65178 Correction tape, 5 lines wide
 78020 Data case, #M6529, 5 1/4"
 66001 Mounts, transp., 3M 512

A variety of Institution souvenir items are available in the stockroom for sale to WHOI employees. Many make nice gifts, so don't forget the stockroom for your holiday shopping. (Prices listed are current prices and subject to change.)

63001 VHS tape, #1063. "Secrets of the TITANIC" \$19.77
 63002 BETA tape, #1063. "Secrets of the TITANIC" \$19.77
 63003 Mugs, cobalt blue w/gold trim and logo. \$4.45
 63004 Coasters, cobalt blue w/gold trim and logo. \$2.65
 63005 Tile, WHOI ship OCEANUS . . . \$2.83
 63006 Tile, WHOI ship KNORR. . . . \$2.60
 63007 Tile, WHOI ship CHAIN \$2.69
 63008 Tile, WHOI ship ATLANTIS II \$2.86
 63009 Tile, WHOI ship ALVIN \$3.11
 63010 Patch, WHOI sew-on. \$1.94
 63011 Decal, WHOI sticker \$0.56
 63012 Decal, WHOI blue/clear 4" . \$0.49
 63013 Shipping logo, FE-106, 5-7/8" circle \$0.75
 63014 Shipping, data, guard, FC-167, white \$0.45
 63015 Postcard, aerial, Wds Hole. \$0.05
 63016 Postcard, WHOI ship KNORR . \$0.05
 63017 Postcard, WHOI ship ALVIN . \$0.05
 63018 Postcard, WHOI ship OCEANUS \$0.05
 63019 Postcard, WHOI ship A-II. . \$0.05
 63020 Tie-tac, WHOI sterl. silver \$9.24
 63021 Bags, carry, WHOI \$3.00
 63022 Calendar, WHOI \$4.50
 63023 Pencil, mechanical, #7860 . \$0.49
 63024 Erasers, refill/mech. pencils \$.05



DON CROFT RETIRES

Don Croft glances through a photo book given him at his retirement party as Chip LeBlanc looks on. The party, held on Feb. 24 at the Mechanics' Shop, celebrated Don's 24 years with WHOI as stock room clerk, electrician's helper, assistant electrician, and electrician. Don, known for his dependability and the high quality of his work, will remain associated with WHOI as a "casual" employee. Photo by Anne Rabushka.

IN MEMORIAM

Frederick C. "Fritz" Fuglister

The Institution announces with great sorrow the death of Frederick "Fritz" Fuglister, age 78, at the Falmouth Nursing Home on June 17.

Fritz, a gifted artist and draftsman, joined the Institution in March of 1941 as a Research Assistant, and was charged by Columbus Iselin to portray bathythermographic data onto charts. During the war, he drew up the sonar refraction slide-rule and helped develop the "harp," a device used to standardize bathythermographs. Later, he sailed as Chief Scientist on numerous vessels and studied the Gulf Stream using Loran and the bathythermograph. During these cruises, he devised the continuous temperature plot, which he used to study the Gulf Stream, its eddies, and warm and cold core rings for the next thirty years.

Fritz served as WHOI Physical Oceanographer from 1948 until 1963 when he was appointed Senior Scientist. He was Physical Oceanography Department Chairman from 1962 to 1967, and was appointed Senior Scientist Emeritus in 1976. He authored or coauthored about 20 scientific publications on the circulation of the Atlantic Ocean with emphasis on the Gulf Stream. His awards included an honorarium from Scripps, a WHOI fellowship to MIT, and the National Academy of Sciences Alexander Agassiz Medal.

Eric B. Carlson

The Institution notes with great sorrow the death of Eric B. Carlson on February 26 at age 80.

Eric worked as a machinist and toolmaker in the Instrument Shop from 1960 until his retirement in 1969. He served in the U.S. Navy from 1927 to 1937, and again as a commissioned officer from 1942 to 1946. Before joining the Institution, he also worked for the Norton Co. for many years.

Dr. George L. Clarke

The Institution notes with great sorrow the death of George L. Clarke on August 23 at age 82.

Dr. Clarke, one of the first appointments to the WHOI scientific staff in 1931, took part in the trans-Atlantic maiden voyage of the ATLANTIS and served in several capacities in the Institution, including, most recently, non-resident Associate in Marine Biology. Throughout his career, he divided his teaching and research between the Institution and Harvard, where he was a faculty member until his retirement in 1972.

Dr. Clarke received his A.B., A.M., and Ph.D. Degrees from Harvard. He was particularly interested in the ecological effects of daylight in the sea, bioluminescence, remote sensing techniques, and ocean productivity. During World War II, under a contract with Harvard and the Office of Emergency Management, Dr. Clarke conducted research at Woods Hole on life raft drift, shipbottom-fouling organisms and antifouling paint, the use of marine plankton as food under emergency conditions at sea, and methods for reducing the wakes of amphibious and surface vessels. He developed two important instruments--the bathyphotometer and the Clarke-Bumpus plankton sampler--and he authored or coauthored about 65 scientific publications, including the book Elements of Ecology, and two films.

Dr. Clarke was President of the American Limnological Society during its expansion to include marine sciences and its conversion into the American Society for Limnology and Oceanography. He helped establish the Harvard-Concord Research Field Station, and was active in numerous professional organizations, including the American Academy for Arts and Sciences, the American Institute of Biological Sciences, and the Pacific Science Congress. He was Chairman of the Faculty Committee on Oceanography at Harvard, and was a incorporator of the Marine Biological Laboratory, the Bermuda Biological Station, and the Boston Museum of Science.

Augustus B. Kinzel

The Institution announces with great sorrow the death of Augustus B. Kinzel on October 23 in La Jolla, California, at age 87.

Dr. Kinzel became a member of the Corporation in 1955, an Associate in 1968, and Honorary Member in 1974. During the late fifties and sixties, he attended Institution meetings and assisted in Development and Foundation activities. His home in La Jolla overlooks the Scripps Pier. He once stated that one of his great joys (at age 83) was to don his wet suit and sail his sunfish around the Scripps Pier flying his Woods Hole banner!

He received his B.A. from Columbia University, his B.S. and D. Metallurgy Engineering from M.I.T., and Doctorate from the University of Nancy in France. In 1926, he began his career as Research Metallurgist with Union Carbide and became president in 1948. He retired in 1965. At Union Carbide, he developed methods to prevent metals from oxidizing and worked on the alloying of steels and designs for pressure vessels. Later he led the development of Union Carbide's titanium manufacturing process.

Kenneth "Scotty" Morrison

The Institution notes with great sorrow the death of Kenneth "Scotty" Morrison at his home in Woods Hole on June 14 at age 83.

Scotty, a skilled carpenter and ship's carpenter, was born on the Isle of Lewis, Scotland, and migrated to the U.S. as a young man. He served in the U.S. Army in the early part of World War II, before joining the Institution staff in 1943. His expert craftsmanship was very evident on all the ships of the Institution's fleet, especially the sailing ships ATLANTIS, CARYN, and ARIES, and the motor vessels BEAR, RISK, CHAIN, and ATLANTIS II. He kept an apartment on the shore of Eel Pond and although he retired from the Institution in 1969, he remained an active part of the Woods Hole community throughout the remainder of his life.

Leonide "Frenchy" LaPorte

The Institution notes with great sorrow the death of Leonide LaPorte on August 16 at age 78.

Frenchy, as he was known to his friends, retired from the Marine Dept. in 1974, having served 10 years with the Institution as Able-Bodied Seaman and Dayman on the ATLANTIS II and later aboard the KNORR.

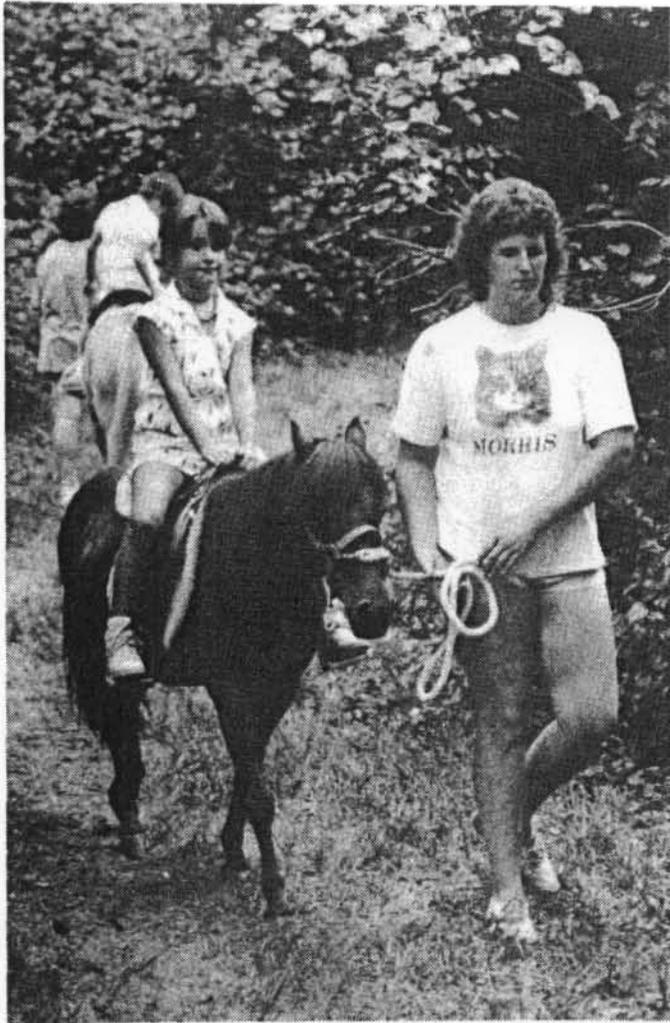
Brendon O'Connor

The Institution notes with great sorrow the death of Brendon O'Connor on July 29 at the age of 30.

Brendon, formerly of Pocasset, joined the Marine Department in August 1975 after graduation from Bourne High School. He served as Deck Hand, Ordinary Seaman, and Able-Bodied Seaman before leaving the Institution in 1978.

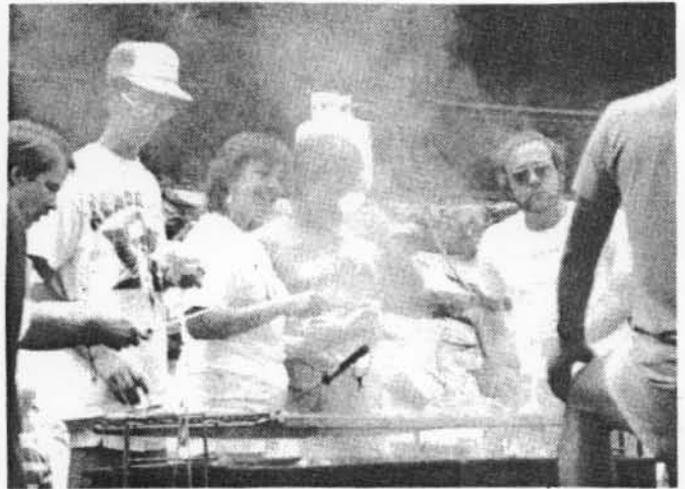


The Schooner APPLIEDORE (above) visited Woods Hole in October after encountering a storm at sea. Photo by Rob Brown, with special thanks to Terry Rioux.



WHOI PICNIC

In spite of light showers late in the day, this year's WHOI Summer Picnic was judged a great success by all participants. The Picnic Committee, headed by Kathy LaBernz, provided food and refreshments, balloons, and a D.J. with sound system, among other things. Many thanks are due all who participated, especially the Picnic Committee members: Hovey Clifford, Charlie Innis, Laela Sayigh, Noelette Conway, Andy Trivett, Arthur Gaines, and Debbie Morgan.





These photos appear courtesy of Linda Lee Andrews (Linda Benway's daughter).



ANNUAL MEETING FESTIVITIES

More than 300 Trustees, Corporation Members, and Associates participated in Annual Meeting activities on June 19. The day's events began with morning Trustee and Corporation meetings; Senior Scientist Bill Jenkins of the Chemistry Department gave the science report on "Tracers in the Oceans." Afternoon activities included demonstrations of the remotely operated vehicle JASON JR. and the flume facility at the Coastal Research Laboratory, and demonstrations of mooring technology and ocean remote sensing and modeling in the Physical Oceanography Department at Clark Laboratory. Later in the day, Assistant Scientist Peter Tyack of the Biology Department gave the annual Associates Lecture on "Baleen Whales vs. Toothed Whales: Differences in Life History, Social Structure, and Communication" in Clark 507. A reception and dinner for Associates and guests under a tent on the Fenno House lawn concluded the day's activities. PHOTOS: Research Associate Dick Payne explains one of the computer readouts received every half hour in the Physical Oceanography Department from a waverider buoy off Martha's Vineyard (above). Some of the Associates try their hand at maneuvering JASON JR. in the test tank at the Coastal Research Lab. Research Engineer Jim Newman is at left providing instructions (right). Photos by Shelley Lauzon.

MIT/WHOI SHUTTLE SERVICE

The MIT/WHOI Shuttle is in full swing this semester, leaving the Smith Building parking lot at 6:45 a.m. Monday, Wednesday, and Friday, and departing each of those afternoons from MIT's East Garage no later than 4:00 p.m. There is also a Tuesday/Thursday shuttle that leaves the East Garage parking lot at 8:30 a.m. and Clark Laboratory at 4:30 p.m. These services will end on the last day of classes, Dec. 10, and should resume again on the first day of classes, Feb. 2, 1988. As always, MIT/WHOI Joint Program students have priority over other WHOI personnel, though if there is room in the vehicle, WHOI personnel may ride.

The shuttle driver is also obligated to pick up and deliver packages of reasonable weight and size to the MIT campus and surrounding area. If you need these services, leave your package or envelope at the Smith or Clark lobby (depending on the day) with MIT SHUTTLE DRIVER and instructions for delivery written clearly on the outside. If you would like something picked up in the Boston area, call the Education Office and someone there can get a message to the shuttle driver (not necessarily on the same day!).

