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SEPTEMBER - OCTOBER 1977



NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION



The entire fleet of vessels operated by the Institution was tied up in Woods Hole when this aerial photograph was taken September 4th. This was a rare event. As far as anyone can recollect the last time all the ships were at the dock at the same time was in 1972. KNORR is in the foreground. ALVIN and LULU are at the end of the dock. On the far side of the dock are ATLANTIS 11, SEAPROBE, CHAIN and OCEANUS. Photo by Benjamin Harrison.

AL VINE AWARDED STONE MEDAL

Al Vine received the David B. Stone Medal "For Distinguished Service to Environment and Community" October 6th at the New England Aquarium in Boston.

The announcement says, "his distinguished service to the environment and the community covers many years, with outstanding accomplishments in the ability to explore the floor of the deep ocean".

The award, which carries with it a \$3,000 stipend, was established by the New England Aquarium Board of Governors in 1970. Previous recipients are: Bostwick Ketchum, former associate director of W.H.O.I.; Jacques Cousteau, explorer; and Robert White, former NOAA administrator.

DR. FYE RECEIVES NAVY PUBLIC SERVICE AWARD

Paul Fye received the Navy Department's Distinguished Public Service Award October 7th in Woods Hole. The presentation was made by Admiral Snyder, Oceanographer of the Navy, at the Associates Annual Day of Science luncheon.

The Citation says, "For distinguished public service as Director of the Woods Hole Oceanographic Institution from June 1958 to October 1977. Dr. Fye has fostered a close relationship between the Navy and WHOI which has become one of the world's foremost centers of excellence in ocean science research."

DR. STEELE ARRIVES IN WOODS HOLE

John Steele arrived October 3rd as planned. Dr. Steele's phone extensions are 500,502. His secretary is Sharon Callahan.

FUNDING ANNOUNCEMENTS

The following are recent funding announcements for scientific support:

From the California Institute of Technology:
-To Dick von Herzen for "Use of Vector Helium Magnetometer for Sea Floor Measurements, Phase Two", \$11,784;

From Dynatech Corporation:
-To John Ryther for "Cost Analysis of Algal Biomass Systems", \$23,049;

From the Energy Research and Development Administration:
-To John Hunt for "Petroleum Potential of the Outer Continental Margin and Deep Ocean", \$30,500;

From the Massachusetts Institute of Technology:
-To Earl Hays for "Surf Zone Hydrodynamics", \$10,593;

From the National Oceanic and Atmospheric Administration:
-To Dave Ross for the Sea Grant program in "Marine Resources Development", \$425,000;
-To Bob Millard "Support for CTD Development", \$6,000;

From the National Science Foundation:
-To Bob Guillard and Linda Murphy for "Comparative Environmental Physiology of Marine Phytoplankton: The Neritic Ocean Boundary", \$100,000;
-To Peter Brewer and Derek Spencer for "Chemical Oceanography of the Persian Gulf", \$64,000;
-To Elazar Uchupi for support of Jamie Austin for doctoral dissertation research in "Stratigraphy and Structure of the Georges Bank Region", \$5,400;

From the Office of Naval Research:
-To Ferris Webster for "Atlantic Oceanography", \$2,745,885;

From the University of Rhode Island:
-To John Farrington for "Biochemistry of Petroleum Compounds, Fuel Oils and Crude Oils in Experimental Ecosystems", \$34,500.

RESULTS OF CPR COURSE

The following people were certified by the American Heart Association to administer cardiopulmonary resuscitation after completing the July course at the Institution: Donald Bankston, Ronald Craft, Steven Ferreira, Irving Gaffney, Matt Greer, Carl Gustafson, Percy Kennedy, Steve Kock, Phyllis Laking, Bruce Lancaster, John Ranney, Jay Robinson, Dick Warren and Steve Weindling.

AROUND THE WORLD BY SCHOONER

When the Campe family from Icking, Germany came to the Institution seeking a tour, it was soon apparent that we were as interested in them as they were in us. Joachim Campe, his wife Marie, and their four children Sylvester, 11; Bartholemew, 10; Laetitia, 9; and Calyxte, 5, are on a four-year, around-the-world cruise on their 50-foot schooner, St. MICHAEL. Mr. Campe said he is making 11 50-minute documentary films of their life at sea for German television, a task that requires shooting more than 100 hours of film. Also on board is Dagmar Heckle, a friend who has taken on the task of teacher to find out how feasible it is to carry on schooling on a boat.

They started from La Rochelle, France in May coming across the Atlantic to Labrador, Newfoundland and Nova Scotia. The first film is already completed. It deals with their life as it used to be and the construction of their boat. They designed the interior to meet their particular needs.

The Campes anchored their schooner in Great Harbor while they were in Woods Hole September 21 to 23. They shot film footage of OCEANUS and SEAPROBE, visited the aquarium, looked at the New England architecture and sang sea shanties with the SEA students before setting sail on the next leg of their journey. They will stop in New York to edit their second film about crossing the Atlantic and then continue along the coast to Florida, through the Panama Canal to the Galapagos, making their plans as they go.

CSANDY WINS CHANDLER-MISENER AWARD

The International Association for Great Lakes Research has chosen Gabe Csandy winner of the first Chandler-Misener Award for his paper on the "Circulation, Diffusion and Frontal Dynamics in the Coastal Zone". It was published in Volume 1, Number 1 of the Journal of Great Lakes Research.

MICROFICHE READER - A 24X and 42X magnification microfiche reader is now available for use in the Research Librarian's Office in Clark 242.

NEWSLETTER NEWS - Notices, photos and items of interest to the oceanographic community may be sent to Phyllis Laking, Co-op, Ext. 252, for inclusion in the Newsletter.

SOFTBALL TEAM HAS GOOD SEASON

The W.H.O.I. Softball Team, who play in the Falmouth Men's League, won 11 and lost 11 games for a 500 season.

John Vermersch, team manager, said it was a great season. The season is from May 1st until the 1st week in August. John said he was especially pleased with the way the season turned out because it looked bleak when the team's only pitcher, Dave Ross, broke three ribs in May. However, Charlie Olson took over and did a good job.

Team members are: Jamie Austin, Larry Boyer, Allan Elzerman, Steve Ferreira, Mike Fitzgerald, Harlow Farmer, Steve Gegg, Roger Goldsmith, Phil Gschwend, Mark Hickey, Phil McClung, Charlie Olson, Dave Ross, Dave Schneider, John Vermersch.

DOES ANYONE HAVE A SPARE PIANO? - A donation is being sought of a piano in good condition for use primarily in the Fenno House. Please contact Charlie Innis, Ext. 279.

SKI CLUB - Shares are available in a ski club comprised mainly of W.H.O.I. employees. It is midway between Killington and Sugarbush. Downhill and X country facilities. For more information call ext. 593. There will be a meeting about this October 18th at 7:00 pm in the Clark 5th floor auditorium.

W.H.O.I. RUNNERS IN FALMOUTH RACE

The Institution's distance runners turned out in force for the now nationally known Falmouth Road Race August 21st.

Gary Mermel, a Summer Fellow in Chemistry, was likely the first one across the finish line. He was 83rd, an excellent showing in a field which included world class runners. Gary ran track in high school, but this was his first official race.

Others who completed the race were Brad Robinson, Biology; Bob Gagorian, Chemistry; Chuck Denham, Terry Farmer, Jim Heirtzler, John Milliman and Dave Ross, G & G; Phyllis Laking, Admin.; Bob Detrick and Leigh Royden, Joint-Program Students; and George Veronis, GFD. Corporation member Frank Ryder won a trophy for being the oldest man to finish.

THE MISPLACED BOOK CORNER

Al Vine says many more books are misplaced than lost in the Institution. He suggested that a list of misplaced books be included in the Newsletter as a regular feature to help make people more aware of the problem and hopefully result in more books returned to their owners. Al made the first contribution. He would like to locate his copy of Janes, Fighting Ships, 1975, Taiwan Edition. Lists of missing books you want to find should be sent to the Newsletter, Coop Building.

W.H.O.I. VOLLEYBALL CHAMPIONS

Pictured at right is the W.H.O.I. Men's Volleyball Team. They won the U.S. Volleyball Division B Championship this spring. They are: Back row - Roger Goldsmith, Fowler Stillman, Hovey Clifford, David Schneider, Frank Holcomb. Front row - Phil Gshwend, Warren Sass, team captain John Mason, Tom Duncan, and Brian Schroeder. John Mason says that more support is needed for next season which starts in November. Anyone who is interested is invited to join them. The team has been quite successful. Their trophies and press clippings are on display in the Clark Lab foyer.



IN MEMORIAM

Homer Ewing, second most senior Corporation Member, died September 29th in Wilmington, Delaware. He was 82.

Mr. Ewing became an Associate in June of 1959 and served a President of the Associates from 1961 to 1968. He was elected a Trustee and a Member of the Corporation in 1963 and has been an Honorary Trustee since 1967 and an Honorary Member since 1974. Committee memberships include those on the Trustee Development Committee, the Associates Industrial Committee, and the Associates Development Committee as vice chairman. His near-perfect attendance record at Annual Meetings since 1959 attests to his continuing interest in the Institution.

He leaves his wife, the former Roberta Simmons, and three children: Mrs. W. W. Spruance, Robert S. Ewing, and Mrs. John C. Grier, Jr. His grandson, Tom Spruance, and one of his granddaughters, Mrs. Charles (Susan Ewing) Shabica, have both been employees of the Institution.

PROMOTIONS, APPOINTMENTS, RETIREMENTS

Recent promotions include:

Donald H. Caranci, R/V SEAPROBE, from Temporary 3rd Assistant Engineer to Temporary Able Body.

Judith O. Cushman, Services, from Part-Time Cleaner to Driver.

Linwood M. Daly, from Part-Time Cleaner, Services to Temporary Messman, R/V SEAPROBE.

Kenneth W. Doherty, Ocean Engineering, from Research Assistant II to Research Associate.

George A. Dunlap, Marine, from O.S. Dayman, R/V KNORR to A.B. Dayman, R/V KNORR.

Carol A. Gunter, Services, from Secretary I to Secretary II.

Doris I. Haight, P.O., from Secretary II to Secretary III.

Frederick R. Hess, Ocean Engineering, from Research Associate to Research Specialist.

Nelson G. Hogg, Physical Oceanography, from Assistant Scientist to Associate Scientist.

George P. Lohmann, Geology and Geophysics, from Assistant Scientist to Associate Scientist.

Eben A. Sage, Services, from Driver to Mail Clerk.

Stephen W. Scaife, from Temporary Messman, R/V SEAPROBE to Temporary Cook, R/V ATLANTIS 11.

Margaret P. Stern, Alvin/Lulu Operations, from Secretary II to Staff Assistant, Alvin/Lulu Operations.

Arnold A. Whitehouse, Jr., R/V KNORR, from Temporary Messman to Temporary Able Body.

Reclassification:

Colleen D. Hunter, Education, from Secretary to Library Technician.

Joan B. Hulburt, Education, from Secretary to Library Technician.

New Appointments:

Christopher F. D'Elia, Biology, Research Associate.

Retirements:

Harold C. Armstrong, Physical Oceanography, Senior Research Assistant.

William L. Connell, Ocean Engineering, Research Assistant.

Gloria S. Gallagher, Geology and Geophysics, Laboratory Assistant.

William F. Gallagher, Facilities, Mechanic.

Olive Martin, Services, Secretary

THREE NEW APPOINTMENTS TO RESEARCH STAFF

Michael Mottl has been appointed assistant scientist in the Chemistry Department. He received his PhD from Harvard and has spent the last two years at Stanford University doing hydrothermal experiments on reaction of basalt with seawater. He will be working on related problems here studying hydrothermally altered basalts and gabbros from the ocean floor and from various geothermal systems on land. He will also be looking at the relation of solution chemistry to the mineralogy and chemistry of metamorphic rocks.

Cindy Lee, who came to the Institution in 1975 as a post doctoral investigator, has been appointed assistant scientist in Chemistry. She received her PhD in Oceanography from Scripps. Her research interests include the marine geochemistry of amino acid and sterols and the organic nitrogen cycle.

Harry Bryden, who received his PhD in Oceanography in the MIT-W.H.O.I. Joint Program in 1975, has been appointed assistant scientist in the Physical Oceanography Department. For the past two years he has been a post doctoral research associate in physical oceanography at Oregon State. His research interests include the dynamics of the Circumpolar Current, the flow of Mediterranean water over the sill at Gibraltar and the use of ocean measurements to understand the dynamics of currents.

GRASSLE GRANTED TENURE

Fred Grassle, associate scientist in the Department of Biology, was granted tenure as an associate scientist effective September 1st. Dr. Grassle, who came to Woods Hole in 1969, received his PhD from Duke in 1967.

His current research activities are concerned with in situ experiments on deep sea populations using ALVIN; genetics of polychaete worms with Judy Grassle at MBL; and studies of benthos and experimental ecosystems at Narragansett, Rhode Island.

TITANIC NOT FORGOTTEN

We may have set some sort of publicity record for something that has not happened, may not happen, or if it does, is not expected to occur until 1979. It's the TITANIC story.

It all started August 8th when a note in the Washington Star gossip column under the heading "Goulish fishing in the North Atlantic" said the Institution was "getting set to drag for, and dig up, the TITANIC". An avalanche of phone calls from media people followed. There were radio interviews, at least 15 newspaper stories and a write-up in Science--all in a one-week period.

Bob Ballard, the scientist whose discussions with two promotional companies concerning the possibility of locating the TITANIC and using SEAPROBE to photograph it triggered the furor, resorted to a telephone message recording device for a couple of days.

The Titanic Historical Society sent Vicky Cullen of the information office a Titanic T-shirt. She has declined so far to wear it to the office.

ANDREA DORIA FORGOTTEN?

George Hampson was one a group of people standing on the dock this summer watching efforts to free four yachts from the New York

Yacht Club from the rocks when he happened to comment that it reminded him of the ANDREA DORIA. A student standing nearby said, "what's that". George was surprised and as a result his father, Walter Hampton, donated a frame containing photos of the event and a piece of hardtack from an ANDREA DORIA lifeboat to help people remember. It will hang in the Port Office.

The ANDREA DORIA, the three year old pride of the Italian Line, was struck by the Swedish motor vessel STOKHOLM 50 miles south of Nantucket Island July 26th, 1956, and sank the following morning. The Coast Guard cutter HORNBEAM assisted in rescue operations and the lifeboats from ANDREA DORIA were tied up at the Coast Guard station dock in Woods Hole.

George and his father went to see the lifeboats. George photographed them and his father collected some hardtack and Coast Guard photos of the accident and had them framed.

FROM YOUR UNITED FUND CHAIRMAN

By now you have all received your United Fund pledge cards. For those of you who have not filed it in the waste basket and wish to contribute a little something for fifteen worthwhile organizations, I'll be glad to receive your 1977-78 donations in the form of cash, check or the Institution payroll deduction plan.

Thanks for you cooperation
Nat Corwin

DR. FYE RE-ELECTED VICE CHAIRMAN IFIAS

Paul Fye was re-elected Vice Chairman of the International Federation of Institutes for Advanced Study (IFIAS) at their meeting in Stockholm the last week of September. He has been Vice Chairman since its inception in 1971.

DAY OF SCIENCE OCTOBER 7TH - The Annual Day of Science was held October 7th. About 100 members of the Institution's Associates program attended lectures in Clark in the morning and toured ESL and the Woods Hole campus after lunch in the Carriage House.

MARINE POLICY REVIEW - About 50 people attended a review of the Marine Policy and Ocean Management program held September 19th from 3:00 to 5:00 pm in Clark. There was a general review of the activities planned for the program during the 1977-78 academic year. Some of the group projects were reviewed and each of the Policy postdoctoral fellows made a brief statement of research plans for the coming year.

STUDENT FINDS SUMMER EXPERIENCES VALUABLE AND ENJOYABLE

Jonathan Lockett, a 17-year-old high school student from Brooklyn, New York whose interests include biology, geology and engineering, said "this will be a summer to remember". Jonathan spent two months at the Institution this summer. He worked in John Teal's lab helping Joint Program students Bob Howarth and Joy Geiselman. He worked with Joy on her snail feeding project collecting algae, feeding the snails, weighing them to see what they eat. Bob told him to design electrodes to measure the sulfide concentration in School Street marsh. Jonathan built and tested several that didn't quite work, however he felt he really had the problems straightened out the day before he left. Jonathan attends Beach Channel High School on Jamaica Bay in New York. It's a specialized school with a program in marine science. He said it's a great school and would be even better if New York wasn't so broke. In addition to lab experience he went to a lot of lectures and had a chance to talk to a lot of students and scientists, an experience he found quite valuable. He was determined to get a closer look at ALVIN. He got permission to watch while welding repairs were being made. The first two days he asked a lot of questions and handed the fellows tools, after that he found he was actually helping them. When it came time for ALVIN to go to sea July 12 - 23 Jonathan, who is a certified diver, was signed on as a swimmer. Swimmers ride the sub out, disconnect lines, etc. Jonathan was delighted. He was also pleased Ralph Hollis spent an hour inside the sub with him one day when they were working on the dock explaining the controls. Best of all he received his ALVIN Patch. Jonathan expects to return for a month this winter to work at the U.S.G.S. with Frank Manheim.



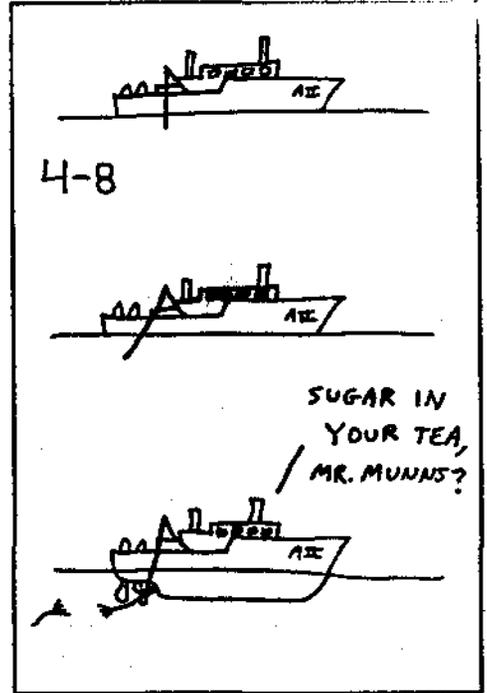
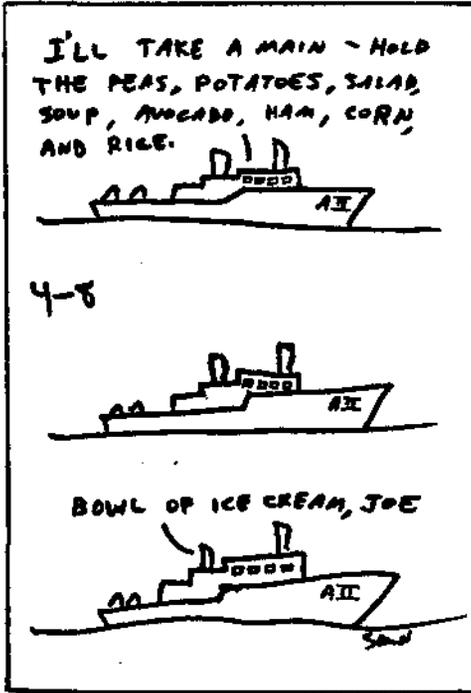
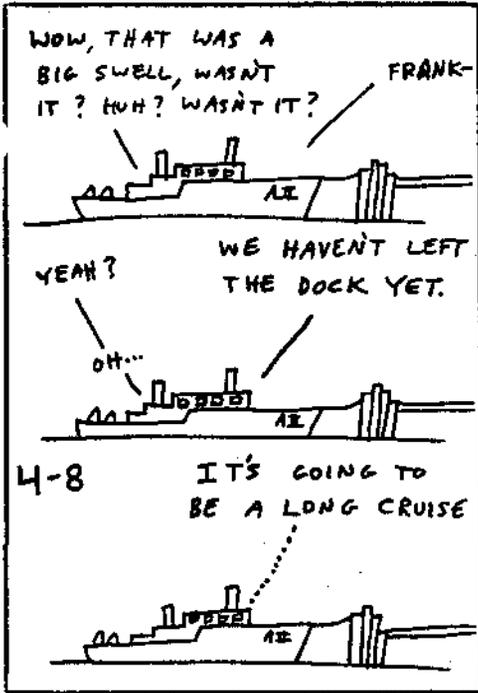
Jonathan Lockett as a swimmer with the ALVIN group. Photo by Jim Bishop.

FIRST WOMAN CREW MEMBER LIKES LIFE AT SEA

In July the first woman crewperson, Deborah Mennett, signed on as emergency medical technician on SEAPROBE. After spending a summer at sea Deborah said she "loved it". "Everyone was great and I think I was accepted by the crew." On her first cruise she was not prepared for the amount of free time--there were no serious injuries or illnesses. By the second cruise she was prepared. She said she played cribbage, lost at chess, read, made a quilt by hand, helped make a tool chest for the bos'n's locker, listened to music and exercised. Used to bicycling 30 miles per day, she jogged (30 times around the pipe is a mile) and jumped rope. Deborah is no longer the only woman crewperson. Susan Ernst was a messman on LULU and Martha Coneybear and Sandra Mogan are ordinary seamen on SEAPROBE.



Dr. Fye with Deborah Mennett on SEAPROBE during Associates cruise to the Cup Races September 17th.



ATLANTIS 11 CRUISE 94 PRODUCED CARTOONS AS WELL AS SCIENTIFIC DATA

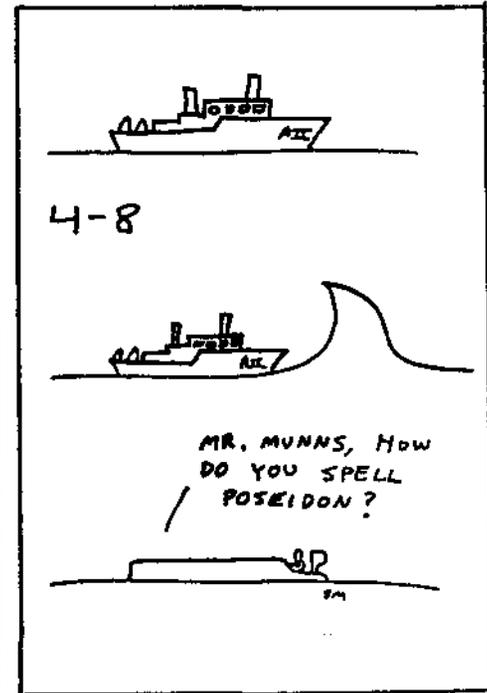
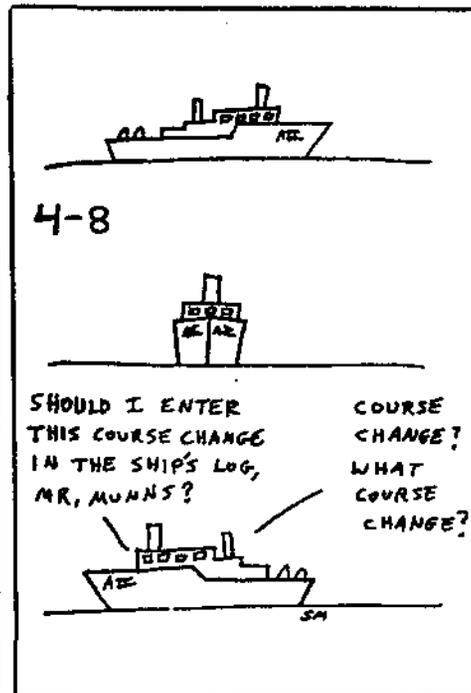
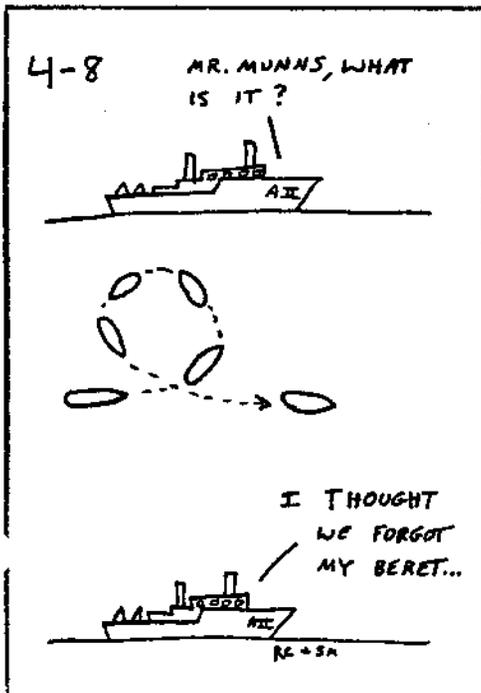
ATLANTIS 11 cruise 94 legs 1 and 11 had its own cartoonist on board. Steve McNutt, a guest investigator who recently graduated from Wesleyan University, did 120 cartoons while on the 4 - 8 watch. The cartoons, appropriately called 4 - 8, deal with situations, real or imagined, that take place on a research cruise.

This was Steve's first cruise and his first attempt at cartooning. Steve said the desire to draw cartoons came upon him when he

went to sea. They were done while he was on watch in the main lab and were left on the bench or posted on the bulletin board for several days.

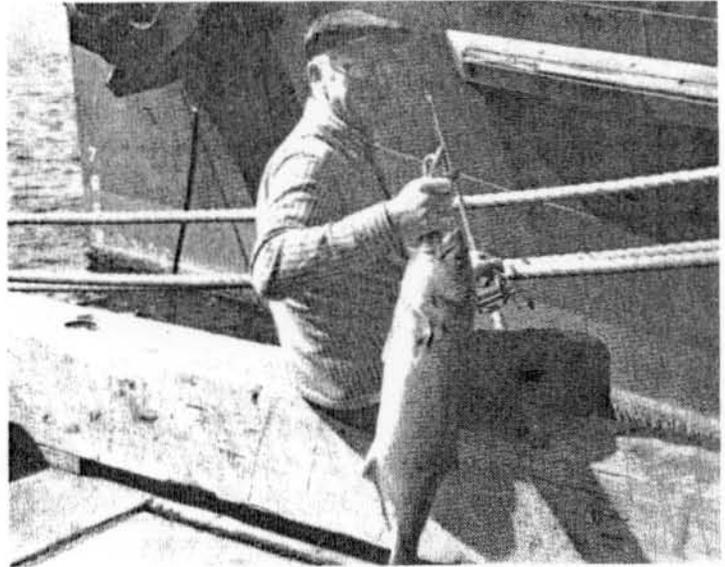
His very first cartoon appears in the upper right hand corner. All is well until the mate, Bob Munns, goes to the mess for a cup of tea. Bob Munns was frequently featured in 4 - 8. The characters in 4 - 8 are people who were on cruise 94.

Steve is not sure whether he will continue cartooning or not but he was kind enough to leave copies of his cartoons to use in the Newsletter. They will be appearing in future issues.



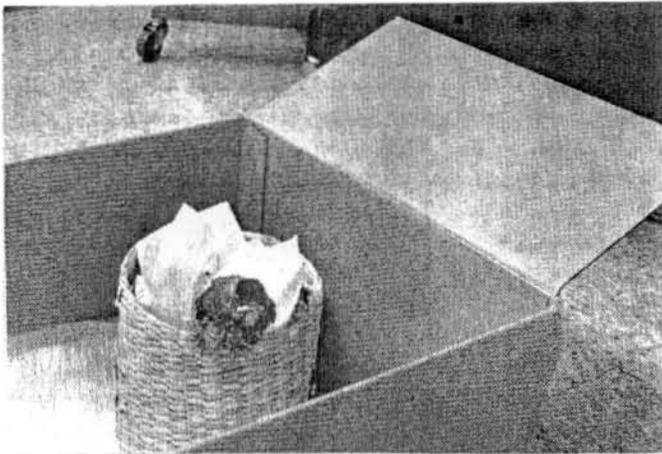
EARL HAYS CAPTURES 10 POUND BLUEFISH

For years Earl Hays has kept an old bamboo fishing rod in his office so he can participate in the noon hour fishing competition that takes place off the Institution dock. People you wouldn't even think own a fishing rod show up for it. First they snag bait and then start fishing. (Some keen types have been observed catching bait at coffee break to get a good start). On Monday, October 3rd, Earl snagged his bait, put his line in the water near CHAIN and sat down to eat his lunch--and promptly caught a record-breaking 10 pound bluefish. Tony Mendousa ran and got his net to lift it. Paul Boutin weighed the fish and took the photo shown at right.



ROSS ON NAS COMMITTEE - Dave Ross has become a member of the Ocean Policy Committee of the National Academy of Sciences.

WOMEN'S DINNER - The 19th annual dinner for women employees will be held Nov. 10th. Phone Michelle Royer or Sharon Callahan for details.



Robin was adopted by Angela Souza when he fell from his nest and was abandoned. He attended G & G's picnic and visited the Clark Lab. He ate worms from Angela's husband's tackle shop and scrambled eggs (worms are expensive). When Robin's brother fell from the nest three days later Robin was placed nearby. Angela checked on them a short time later. They apparently both finally mastered the art of flying and flew away.

MTS AWARDS TO BALLARD AND SPILHAUS

Bob Ballard and Athelstan Spilhaus, Member of the Corporation, will be among the recipients of the 1977 awards from the Marine Technology Society. The awards are made annually for outstanding contributions to the development of marine technology and science. The Presentations will be made at the Oceans 77 MTS/IEEE Joint Annual Conference to be held October 17-19 in Los Angeles.

Dr. Ballard will receive the Compass Distinguished Achievement Award for his achievements in marine geology and in ocean engineering related to the use of manned submersibles.

Dr. Spilhaus will receive the 15th Anniversary Award for brilliant innovations in marine technology and in the application of marine science to social, economic and educational problems.



The Falmouth Militia is shown here defending the town during the second re-enactment of the British attack which was held August 13th. If you look closely you will see Bob Dinsmore loading his musket and Andy Wessling giving the order to fire.

SHIP NOTES

ATLANTIS 11 made a geological and geophysical cruise southeast of Nova Scotia in August to study the Laurentian Fan. The 6-channel seismic profiler was deployed and seismic profiler, magnetometer, 3.5 kHz echosounder and sonobuoys were used to investigate the geologic framework of the Fan. In September a geology and geophysics cruise was made from Woods Hole to St. Georges, Bermuda. Sediment trap arrays were deployed at three sites in the western Sohm abyssal plain. Cores, hydrocasts, plankton tows, and sonobuoy wide angle reflection and acoustic studies were made at each site.

KNORR's August voyage was a Brookhaven National Laboratory cruise to examine the food chain dynamics south of Long Island and the possible development of anoxia off New Jersey. In September a geochemistry cruise was made from Woods Hole to Halifax and back to sample surface films, dissolved and particulate phases in the water column, and bulk sediments and interstitial waters. A buoyed array was recovered on the second leg.

OCEANUS went to Massachusetts Bay in August to study the mechanisms of internal wave generation, propagation and dissipation, as well as the interaction of internal waves with phytoplankton and zooplankton. A cruise was made to the region of the Hudson Canyon in September to set five moorings and do hydrographic stations. This was followed by a cruise in the North Atlantic to make three scuba diving and trawling stations to collect oceanic zooplankton for physiologic study.

SEAPROBE made a voyage in North Atlantic waters in August for the Naval Underwater Systems Center, New London Laboratory. In September SEAPROBE made two one-day cruises to take ALCOA guests and Institution Associates to see the Cup Races. On a recent voyage to test underwater bottom survey systems the drill pipe fractured and the survey pod and 3,000 feet of pipe were lost in 3,300 feet of water near Deep Ocean Station No. 1. The equipment lies inside an acoustical navigation net. SEAPROBE is to return to the area for survey and assessment for possible recovery. The loss has limited SEAPROBE's capability to 6,000 feet of water depth until the pipe and cable are replaced. Following this cruise SEAPROBE will be placed in winter layup until spring operations begin.

ALVIN and LULU made a voyage south and east of Georges Bank in August for the Lamont-Doherty Geological Observatory to observe and

sample the stratigraphy of submarine canyons running south and east of Georges Bank. In September there was a cruise south of Nantucket Island for the Northeast Fisheries Center, NMFS, to investigate and document the ecological and geological features of the deeper regions of the Atlantic and Veach Canyons. This was followed by a biology cruise south of Nantucket Island to re-visit Deep Ocean Bottom Stations 1 and 11.

KNORR CALLS AT THE BEDFORD INSTITUTE

While KNORR was tied up at the Bedford Institute of Oceanography in Halifax in September at the midway point on cruise 69, 85 scientists from the Bedford Institute and Dalhousie University joined KNORR's scientists, officers and crew for a wine and cheese party in the main lab. On the following day there was a reception at the Bedford Institute hosted by Dr. William L. Ford, Director, Ocean and Aquatic Sciences Atlantic, Department of Environment Canada, for KNORR's personnel. About 250 Canadian scientists toured KNORR. According to the recollection of the Canadians, this was the first time that a W.H.O.I. ship has called at the Bedford Institute since the maiden voyage of ATLANTIS 11.

ALVIN TO HAVE TITANIUM FRAME

ALVIN will have a titanium frame, be two feet longer, and have a somewhat blockier appearance after its annual overhaul.

Larry Shumaker said there is severe cracking in the aluminum frame. He said, "we expect to eliminate the cracking problem with the titanium frame. So far as we know seawater does not do anything to titanium. It is highly corrosion resistant." ALVIN already has a titanium personnel sphere.

ALVIN will be lengthened two feet to leave space for an additional battery package to be added in the future. Larry said this additional package will increase power by 30 percent.

The frame is being made by TIFAB. They are fabricating pieces at their plant in New Jersey and will assemble it at a plant in Canada. ALVIN's overhaul period started October 1st. Larry said they hope to be ready to go back to sea by mid-February 1978.

SQUARE DANCE - New England style square dances sponsored by the Community Association will be held at the Community Hall Saturday, October 22nd, and Saturday, November 26th, at 8 pm. Music by the Woods Hole Folk Orchestra. Caller Tony Parkes. Admission charge.

NEW FACES



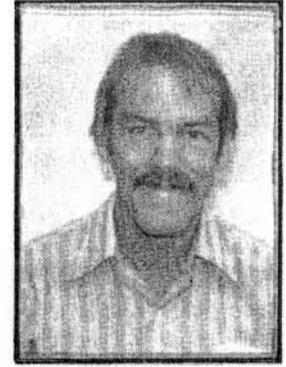
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Visiting Inv.
MP&OM/R. Morse
Crowell
548-3705/x276



Harry L. Bryden
Asst. Sci.
P.O./J. Luyten
Clark 311A/x542



Robert R.P. Chase
Postdoc. Scholar
P.O./G. Csanady
Clark 343/x549



Steven A. Cressy
Lab. Asst.
O.E./P. Boutin
Smith 115/x212,241



Alan J. Faller
Guest Inv.
P.O./V. Worthington
Clark 359B/x527



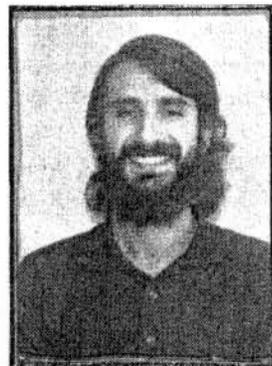
David L. Feigenbaum
Postdoc. Scholar
Bio./A. Kalmijn
R. Harbison
Clark 419/x518



Elizabeth R. Fye
Photographic Tech.
SVCS./D. Souza
Blake/x260



Ellen M. Gately
Staff Asst.-
Sea Grant
G&G/D. Ross
Clark 257/578



Daniel T. Georgi
Postdoc. Scholar
P.O./M. McCartney
Clark 339/x530



David L. Gray
Photographic Tech.
SVCS./D. Souza
Blake/x260



Kimberly S. Hills
Res. Asst.
Alvin/Lulu/
L. Shumaker
Smith 301/x407



Darryl J. Keith
Res. Asst.
G&G/D. Johnson/
J. Ewing
Clark 122/x586



Martin C. Miller
Postdoc. Scholar
G&G/J. Milliman
Clark 253/x575



Michael J. Mottl
Asst. Sci.
Chem./G. Thompson
Redfield 354/x345



Dwight G. Peavey
Postdoc. Scholar
Biology/J. Goldman
E.S.L. x557



Alison Rieser
MP&OM Fellow
MP&OM/R. Morse
Crowell/x449



M. Estellie Smith
MP&OM Sr. Fellow
MP&OM/R. Morse
Crowell/x324



Judith Spiller
MP&OM Fellow
MP&OM/S. Peterson
/L. Smith
Crowell/x450



Ruth B. Spivey
Library Tech.
Educ/C. Winn
Smith 206/x269



Thomas L. Torgersen
Postdoc. Inv.
Chem./W. Jenkins
Clark 459/x556,554



David A. Welch
Res. Asst.
O.E./C. Tollios
Big./x276,237



Jeffrey J. Wheat
Research Asst.
P.O./P. Richardson
Clark 321/x546



Wendy I. Wiltse
Postdoc. Scholar
Bio./J. Teal
Redfield 212/x319



Robert White
Guest Inv.
G&G/D. Ross
Clark 116A/x581

Please take this Newsletter home.
Others there may be interested in
reading it.

FALL ACTIVITIES AT ENDEAVOUR HOUSE

The Endeavour House Committee would like to bring you the following fall activities and notices:

WEEKLY ACTIVITIES at Endeavour House Upstairs

- *MADRIGAL GROUP - Every Sunday, 7:30-10 pm. They are looking for male singers.
- *MORRIS AND SWORD DANCING - Every Wednesday, 7:30-8:30 pm. Newcomers are very welcome, especially women.
- *RECORDER GROUP - Every Thursday, 5-6:00 pm. Anyone who plays recorder is welcome.

Endeavour House Upstairs and Downstairs is available to all employees for almost any activity of a non-professional nature. It can be reserved by calling Endeavour House at 548-9107.

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- *PIANO - The piano can be used for practice by any employee or student. Call 548-9107 for reservations.

EXHIBITS at Endeavour House Upstairs

- *Photos by Peter Gaffron - the first show of the season, started September 24th.
- *Mixed media show - batiks and pottery by Sheila Payne, Mary Mavor and Anne Newberry. October 16 to November 8th.

Exhibits are open weekdays 10 am - 4:00 pm. Watch for upcoming events. A weekly calendar will be posted on the bulletin board outside Endeavour House. Events will also be included in the Institution's weekly calendar. Exhibits and craft shows are welcomed. Phone 548-9107 for information.

LUNCH, COFFEE at Endeavour House Downstairs

Endeavour Downstairs is open for employees from 10:00 am - 4:00 pm weekdays for morning coffee, lunch, and afternoon coffee. Hearty lunches are served of homemade soups, breads, yogurt, goodies along with cheeses and eggs, and sometimes quiches and pies. Soup makers are needed. Phone Stella, Sheila or Pat at 548-9107 if you are interested.

THE CRAFTS WORKSHOP

Announcing the opening of the Crafts Workshop at Endeavour House. The idea for this workshop originated in one of the early

meetings of the Wives Committee. Lois Berggren is the organizer.

When: Wednesdays, 9:00 am - noon. Occasional day-long dyeing workshops on Fridays.

Where: Endeavour House Upstairs. Dyeing workshops will be in a private house.

What: To begin with, lessons in spinning, natural dyeing and off-loom weaving, mostly fibre craft (can include macrame, crocheting and knitting). Other crafts can be considered.

- *Nature walks to gather dyestuffs and study natural forms.

- *Optional, occasional one-hour lectures on art, art education, art philosophy and related subjects. Demonstrations from professional or amateur expert craftspersons.

- *A chance to work in a relaxed, peaceful, craft-art oriented communal environment in which everyone's contribution is important.

- *A "wooley bank" for members so they can draw out small amounts of dyed wood on the condition that they replace it with a like amount (in weight, quality and color). The "wooley bank" could also include other fibers such as sisal, jute, raw silk, cotton cord, mohair and alpaca.

Requirements: A nominal fee will be charged for materials. The weekly sessions will be limited to 15 people. A second weekly session will be arranged if necessary.

Contact: Lois Berggren, 50 Sippewissett Road, Falmouth 02540. Phone 548-4385. Please call her for registration, further information or to offer your ideas or services.

WIVES' COFFEE MEETINGS - The first of six "coffees" for women in the oceanographic community will be held October 11th at the Carriage House from 10 to 11:30 am. Children are welcome.

TGIF - TGIF is held every Friday at the Fenno House from 5:15 to 7:00 pm for employees and their guests. Both English and American draft beer is served.