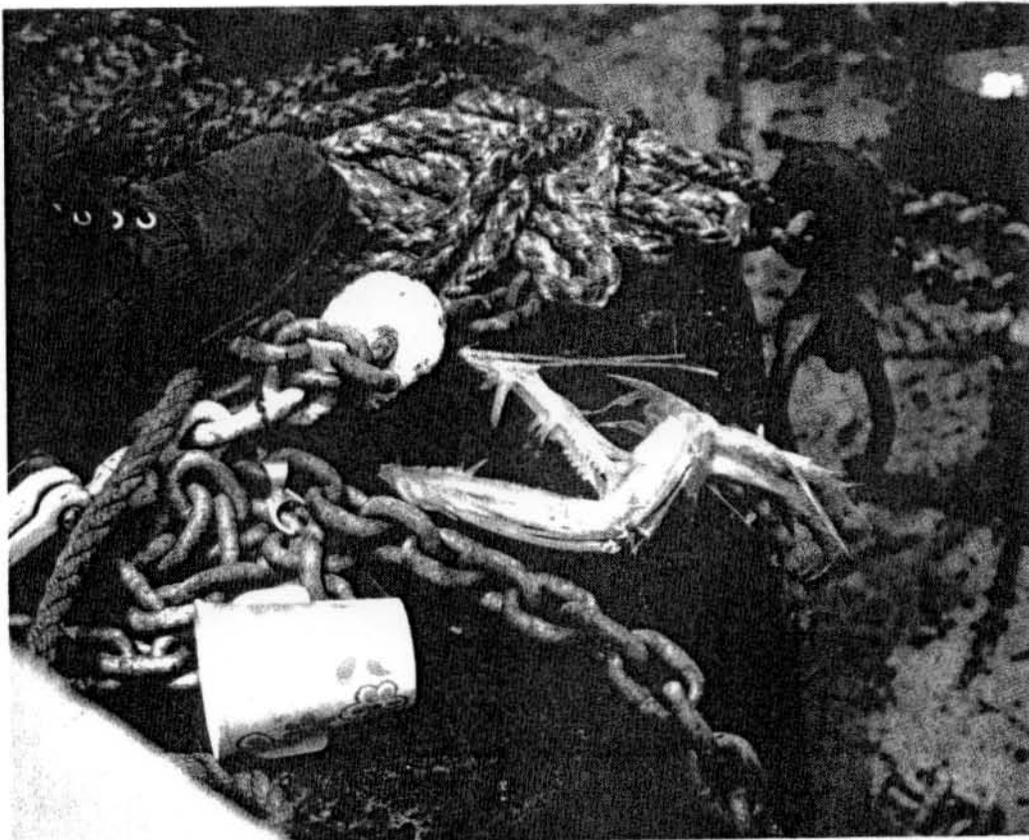




NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION

At right is the jaw of an Alepisaurus ferox, more commonly known as a Lancet fish, which was found in a blue shark's stomach on ATLANTIS II cruise 100 in June in the vicinity of the Mid-Atlantic Ridge southeast of Bermuda. According to Fishes of the Gulf of Maine they have one long dorsal fin and a small adipose fin like a salmon. They are mid-water fishes and nothing is known of their habits. They have very large teeth and are one of the fishes suspected of cutting buoy lines. Photo by Susan Tarbell.



FELLOWSHIP, DEGREE AWARDED AT DAY OF SCIENCE

The first Paul MacDonald Fye Fellowship and the second W.H.O.I. Ph.D. in Oceanography were awarded October 6 at the Annual Day of Science luncheon.

Susan Henrichs was awarded the Fellowship for the academic year 1978-79. Susan, who entered the Joint Program in 1975, is in the Chemistry Department studying amino acids in interstitial marine sediments.

Peter Ortner was presented with his Ph.D. in Oceanography. He completed the requirements for the degree last December but this was the first opportunity to present the degree. He is working at the Environmental Research Lab of the National Oceanic and Atmospheric Administration in Miami.

His dissertation is entitled "Investigation into the Seasonal Deep Chlorophyll Maximum in the Western Atlantic, and Its Possible Significance to Regional Food Chain Relationships." Peter Wiebe was his advisor.

About 200 Associates and guests attended the 24th Annual Day of Science. In the morning they heard talks by John Farrington, Bob Spindel, Bill Watkins and Val Worthington in the Clark 5th floor conference room. This was followed by lunch at the Carriage House and visits to the laboratories.

BOOK ABOUT ATLANTIS IS PUBLISHED

The Institution's first ship, ATLANTIS, is the subject of the latest book by historian Susan Schlee. On Almost Any Wind: The Saga of the Oceanographic Research Vessel Atlantis has just been published by Cornell University Press. It tells the history of ATLANTIS during her career at the Institution along with anecdotes about the people who sailed on her. Susan wrote in an article in the September issue of Oceans, "she all but monopolized the discoveries made at sea during the first twenty five years of her exceptionally long career."

TO:



Nonprofit Organization

Permit No. 46

Woods Hole, Mass.

Woods Hole Oceanographic Institution
Woods Hole, MA 02543



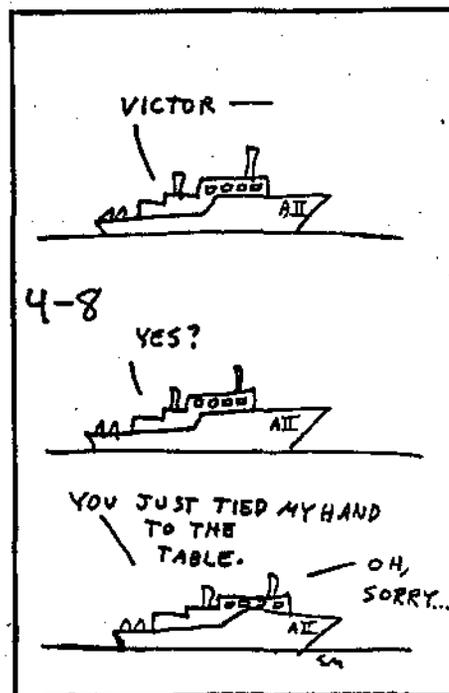
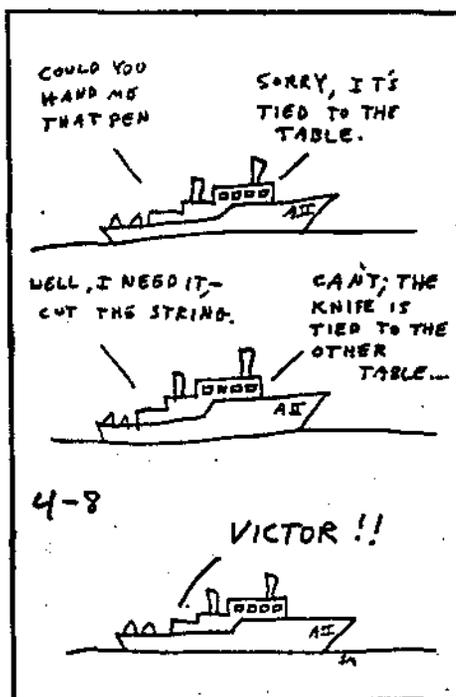
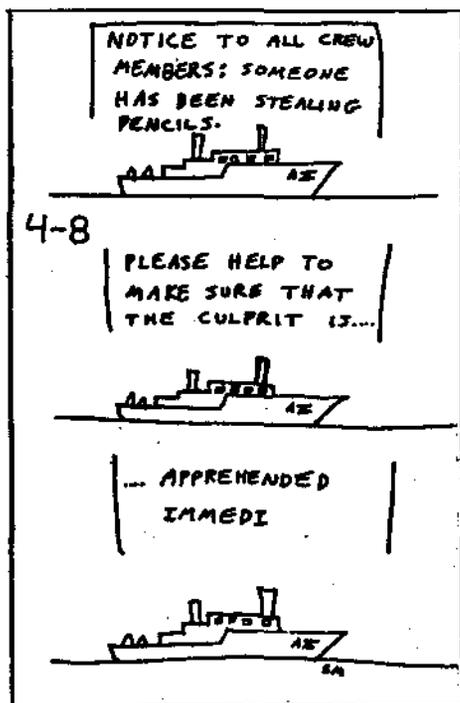
VICKY CULLEN

THE PEANUT BUTTER CLUB EXPERIENCE - "I got dem taxonomic blues, Louis agassiz had dem too" was the refrain as Michael DiSpezio of the Falmouth Academy and Dan Gibson of BUMP, who are pictured above, entertained at Peanut Butter Club June 9th. Peanut Butter Club is the Friday noontime "lecture" at the Redfield Auditorium which originated in the early years of the Institution when someone would get up and talk about something he was doing while his fellow employees ate their bag lunches. Peanut Butter Club has always had variety. There have been one, two and three screen slide talks, music, interesting films and old Navy films, and once everyone sat in the dark to watch bioluminescent crustacea floresce. But Dan and Michael may have ushered in a new era. They sang and played seven hilarious blues songs they had written about science with background slides, humor, costume changes and even a light show. They brought the house down.

UP MOUNT WASHINGTON ON A UNICYCLE

David Epstein, who works part time with John Stegeman, is a high school student from Lexington who rides a unicycle. On August 7th, he and four other members of the Lexington unicycle club rode their unicycles up Mount Washington in 4 hours 20 minutes. Mount Washington rises 5,000 feet in 8 miles. One of the students' parents acted as support team dispensing water and fruit juices every mile or so. Everyone made it. But David, who had a cold at the time, said it was the hardest thing he has ever done and wouldn't do it again.

ORIENTATION PROGRAM - There will be an orientation program in the Clark 5th floor conference room Wednesday, Oct. 4th at 7:30 pm for employees and their spouses who have been at the Institution a year or more. Personnel practices and procedures will be discussed.



"4 - 8" Cartoons by Steve McNutt

SHIP NOTES

ATLANTIS II made a biology cruise from Woods Hole to Glasgow, Scotland, from mid-June to mid-July. The purpose was dive collecting and trawl collecting. Plankton tows and hydrocasts were made. In August and September two cruises were made for physical oceanography from Glasgow to Glasgow and Glasgow to Woods Hole. On leg I ATLANTIS II participated in the International Joint Air-Sea Interaction (JASIN) project including deployment-recovery of W.H.O.I. mooring and drifters and operations for visiting scientists from SIO, Bedford Institute, OSU and Stanford University. The purpose of leg II was to recover a NOAA mooring, XBT sections and a drifter buoy and mooring south of Cape Cod.

Following ATLANTIS II's last cruise of 1978, October 25 to October 27, she will be placed out of service. Planning continues to repower the ship with diesel engines in the first half of 1979. A final decision to proceed will be made after shipyard bids are received on or about November 1.

KNORR departed Kwajalein Atoll in the Marshall Islands in mid-June on a Kwajalein to Kwajalein cruise to study the history of down-wind, down-current distribution of close-in fallout in the Bikini area and to study the distribution trajectories and biological availability of transuranic elements in the

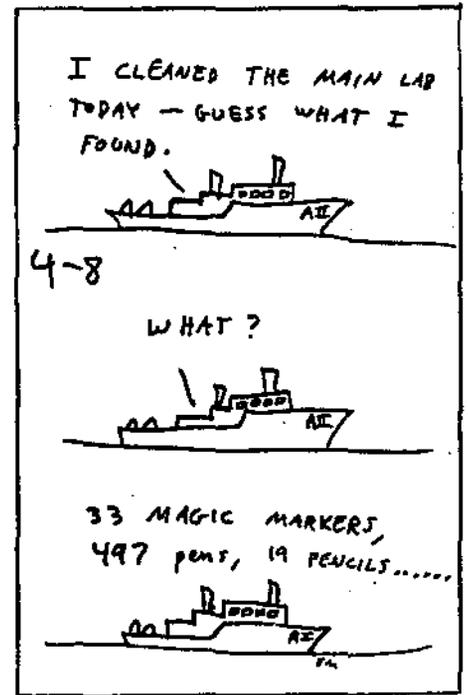
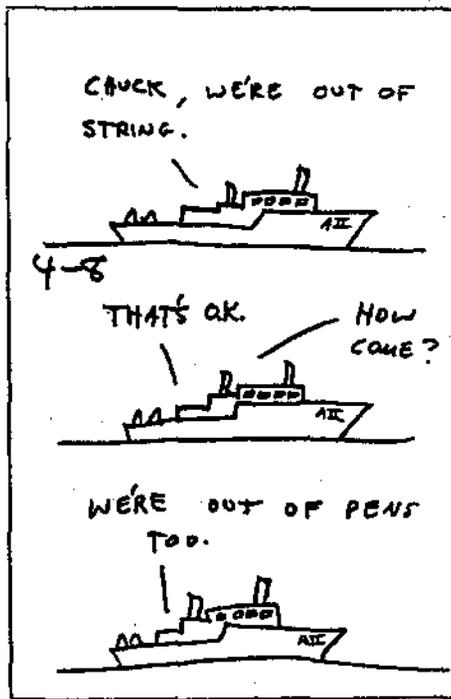
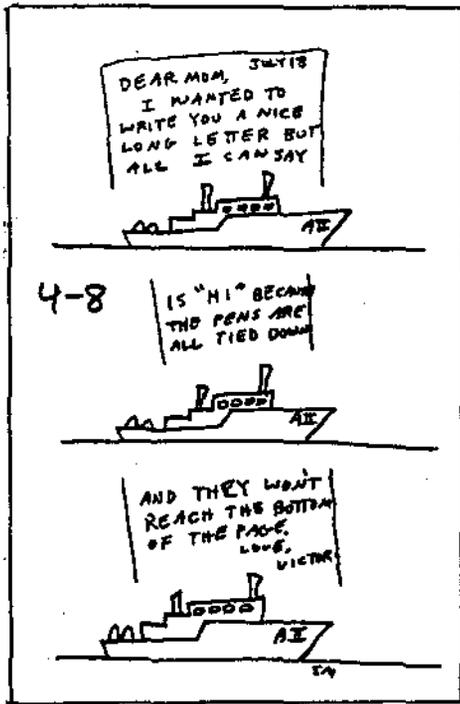
water column that are now leaking out of the atoll soils and sediments.

The July 13 issue of the Kwajalein Hourglass had a story and photo of KNORR headed "Oceanographic Research Vessel Visits Kwaj". The story describes KNORR's special features and her research program.

From mid-July until mid-August KNORR made a cruise from Kwajalein to Pago Pago, Samoa, to investigate the bottom sediments and interstitial water chemistry, the photo chemistry and radiation spectrum of the euphotic zone, and the distribution and chemistry of particulate matter in the water column. KNORR then went to Wellington, New Zealand, and entered a shipyard for a maintenance period. From mid-September until early November KNORR is making a cruise from Wellington to Christ Church, New Zealand, and from Christ Church to Christ Church to make a physical oceanographic survey of the late winter, early spring hydrography between the south and east coasts of New Zealand and the Antarctic pack ice.

OCEANUS now has a ship brochure. It is beige with blue print. The rest of the fleet will be getting similar brochures as the old supply is used up.

At the end of May OCEANUS made a cruise to the New York Bight Apex to sample sediment organisms and water for the biology department. In June she made a cruise for physical oceanography and ocean engineering as part of a



multi-ship research program called Local Dynamics Experiment (LDE) of the larger US/-USSR POLYMODE Experiment. Its purpose was to obtain vertical profiles of velocity and other quantities in the area centered at 31° N - 69° 30' W and extending outward to a radius of 120 miles. In early July OCEANUS made a biology cruise to collect phytoplankton samples, isolate phytoplankters, determine physical and chemical properties of the environment and carry out bioassay of the water for a study of comparative environmental physiology of the neritic-ocean boundary. This was followed by midwater trawls in the Florida Current between the Straits of Florida and Cape Hatteras to determine what deep ocean midwater fishes of tropical origin are carried north in the Florida Current. In August a benthic chamber was deployed in Buzzards Bay near Penikese Island and the ship then continued to the New York Bight Apex for biological sampling. In September OCEANUS made a cruise for ocean engineering to conduct underwater acoustics experiments at stations A, B, C and D. OCEANUS is making a cruise from Woods Hole to Lisbon Portugal in October for chemistry. Its purpose is to examine the mechanisms of lateral transport and mixing of the Mediterranean Sea water in the North Atlantic Ocean.

ALVIN and LULU were engaged in voyage 100 from mid-July until mid-September making geological and geophysical observations on the Mid-Atlantic Ridge in the vicinity of

36° 30' N and 38° 30' W. This was followed by a cruise to Oceanographer Canyon for the National Marine Fisheries Service.

1979 CALENDAR TO FEATURE ATLANTIS

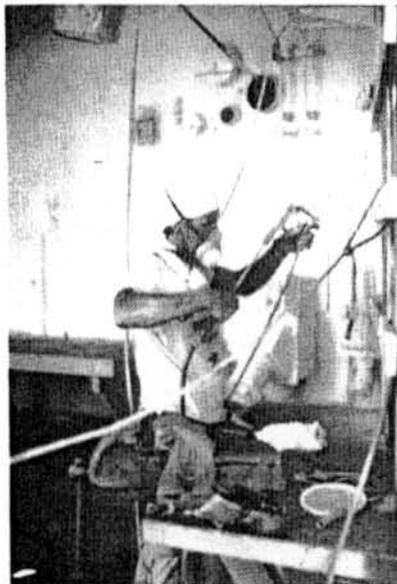
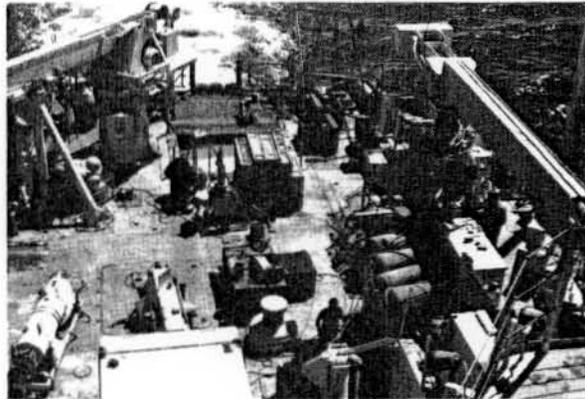
The Institution is publishing a 1979 calendar featuring photos of ATLANTIS. It will contain photographs by Don Fay, David Owen, Claude Ronne, Jan Hahn and others.

Vicky Cullen, who prepared the calendar, said this will be a preview of the Institution's 50th Anniversary in 1980. She said she used the best photos she could find and she hopes that this will prompt people to let her know about other photos which could be used during the 50th Anniversary.

The calendar is expected to be ready by November and will cost around \$2.00.

4-8 FOOTNOTE - The current series of 4-8 cartoons ends with this issue. 4-8 is the creation of Steve McNutt of the Marine Seismology Department at Lamont who was a guest investigator on ATLANTIS II cruise #94. He drew the cartoons while on the 4-8 watch. Steve wrote in a recent letter of "the fine group of people on AII 94". He said, "They really created 4-8, I only observed".

MISSING JOURNALS - The following issues of Sea Technology are missing from the Ocean Engineering shelves Room 213 Bigelow: 1977 January, August through December and 1978 January, February.



SCENES FROM THE PACIFIC
KNORR CRUISE



These photographs of KNORR #73 were taken by Joe Kirk, Messman on the run from Honolulu (15 May) to Kwajalein (13 June) while the ship was working along the Equator on Charles Erikson's current studies. Top Row - Left - Bridge wing renovations. Center - Beaver Worthington, OS, mixing paint. Right - George Murphy, Oiler, alert watch below. MIDDLE ROW - Left - Tom O'Neil, Ed Brodrick and Frank Tibbitts repairing the underside of starboard wing - or just looking? Right - All the gear for KNORR '73 and still room for a swimming pool. BOTTOM ROW - Left - George Dunlap, AB, ace welder. Center - Bill Eident, 2nd Asst. Engineer, standing watch. Right - John Daly, OS, at the "ready".

FUNDING ANNOUNCEMENTS

The following are recent funding announcements for scientific support:

From the Department of Energy:

- To C. Hollister for "Purchase of One Sea Data Reader with Options", \$10,350;
- To J. Ryther for "Effects of Environmental Stresses on the Species Composition of Phytoplankton Populations", \$100,000;
- To J. Ryther for "Cultivation of Macroscopic Marine Algae and Freshwater Aquatic Weeds", \$222,486;
- To J. Teal and J. Farrington for "Biogeochemistry of Petroleum Components at the Sediment-Water Interface", \$169,280;

From the Environmental Protection Agency:

- To J. Farrington for "Biochemistry of Fossil Fuel Aromatic Compounds in Marine Ecosystems Research Lab (MERL) Experiments", in cooperation with the University of Rhode Island, \$24,000;
- To F. Grassle for "Benthic Communities in Experimental Ecosystems and the Effects of Petroleum Hydrocarbons", in cooperation with the University of Rhode Island, \$48,081;

From the National Science Foundation:

- To C. R. Denham for "Marine Sedimentary Paleomagnetism", \$31,000;
- To W. Deuser for "Concentration and Isotopic Composition of CO₂ Occluded in Polar Ice: Implications for the Carbon Cycle and Its Coupling to Climate", \$57,400";
- To W. D. Grant and A. J. Williams 3rd for "Combined Wave and Current Processes in the Coastal Environment", \$57,600;
- To J. F. Grassle for "Biological Exploration of the Galapagos Rift", \$179,590;
- To J. F. Grassle and H. L. Sanders for "Community Structure and Small-Scale Distribution of Benthic Organisms in Galapagos Rift Area", \$45,785;
- To G. Grice for "The Ecology of Resting Egg Production in a Marine Calanoid Copepod", \$15,899;
- To J. Heitzler for "JOIDES Office Operation", \$24,406;
- To H. L. Jannasch for "Acquisition of Equipment for Research in Marine Microbiology", \$4,300;
- To E. J. Katz for "Annual Cycle in the Western Equatorial Atlantic", \$126,100;

- To N. H. Marcus for "Developmental Anomalies in Twin Sea Urchins", \$60,105;
- To G. Metcalf and E. Schroeder for "Digitizing Bathythermograph Data to Aid the Study of Climate Change", \$53,000;
- To T. B. Stetson for "Support for the University National Oceanographic Laboratory System (UNOLS) Office", \$59,667.
- +To V. Worthington and J. Whitehead for "The Flow of Bottom Water Between the North and South Atlantic", \$110,000;

From the Office of Naval Research:

- To J. Ewing and W. Watkins for "Marine Biological Sounds/Intercomparison Tests for ROSE Experiment", \$43,230;

From the U.S. Nuclear Regulatory Commission:

- To V. T. Bowen for "The Environmental Behavior of Transuranic Nuclides Leaked from Water-Cooled Nuclear Power Plants", \$39,750.

EMERITUS APPOINTMENTS POLICY ESTABLISHED

At the April 18th Executive Committee meeting the following policy statement was approved: "Members of the Scientific Staff shall be eligible for emeritus appointment upon retirement. Appointment as Scientist Emeritus will be made by the Executive Committee of the Board of Trustees upon nomination by the Director. Such appointment continues the individual's association with the community of scholars at the Institution"

The following were designated as Scientist Emeritus: Dean F. Bumpus, Gifford C. Ewing, Frederick C. Fuglister, Bostwick H. Ketchum, Frank J. Mather III, and Mary Sears.

Earlier emeritus appointments had been made to Alfred C. Redfield and H. Burr Steinbach.

CPR COURSES SCHEDULED FOR THIS FALL

A series of cardiopulmonary resuscitation courses (CPR) will be held this fall for employees who wish to be certified in CPR and those who are in need of recertification.

There were courses held September 5, 7 and 12 and October 3, 5 and 10 and there will be courses held November 2, 7 and 9; December 5, 7 and 12. If you are interested, please contact the Safety Office at Ext. 2451.

NEW FACES



Donald M. Anderson
Postdoc. Invest.
Bio./R. Guillard
Clark 421/x2563



David G. Aubrey
Asst. Sci.
G&G/J. Ewing
Clark 253/x2852



John H. Batchelder
Res. Asst
Bio./J. Ryther
ESL/x2783



Mary Burchard
Secretary
Pers./S. Long
Big. 105/x2704



Jodell J. Carlson
Res. Asst.
G&G/B. Haq
Clark 121/x2839



Donna R. Christie
MP&OM Fellow
MP&OM/R. Morse
Crowell/x2449



Wayne R. Decker
MP&OM Fellow
MP&OM/R. Morse
Crowell/x2773



Christopher S. Green
Trainee Mechanic
Alvin/LuLu Ops./
L. Shumaker
Smith 301/x2407



James R. McGoodwin
MP&OM Fellow
MP&OM/R. Morse
Crowell/x2774



Donald A. Moller
Marine Ops. Coord.
Mar. Ops./R. Edwards
Iselin 49/x2277



Johnes K. Moore
MP&OM Senior Fellow
MP&OM/R. Morse
Crowell/x2571



Betsey G. Pratt
Graphics Tech.
Graphics/D. Souza
Blake/x2720

ROWE INVITED TO ECUADOR RESEARCH INSTITUTION

The Organization of American States has invited Gil Rowe to be a visiting professor for two months this fall at the Instituto Oceanografico do la Armada (Oceanographic Institution of the Navy) in Guayaquil, Ecuador. Gil will assist them in the laboratory processing of samples and data which he and his wife Judy helped the Ecuadorians collect on board R/V EASTWARD during the JOINT II expedition of the Coastal Upwelling Ecosystem Analysis (IDOE) Program. He will also offer a short course in benthic ecology and initiate studies of the large mangroves surrounding the Gulf of Guayaquil, soon to be a site of exploratory oil drilling.



James G. Sanders
Post Doc. Invest.
Biol./J. Ryther
ESL/x2782



Henry M. Stommel
Senior Scientist
P.O./V/ Worthington
Clark 310A/x2529

LOTS OF VISITORS - A total of 9,639 people visited the Institution's Exhibit Center in the upstairs of Endeavour House this summer between the last week in June and Labor Day.



Robert C. Thunneel
Postdoctoral Scholar
G&G/W. Berggren
Clark 113/x2593



Stuart G. Wakeham
Asst. Scientist
Chem./J. Farrington
Redf. 358/x2489

ARCHIVES WANT

This column is being run in each issue of the Newsletter to help fill in the gaps in the Institution's Archives. If you have any information or copies of the following items, please contact Bill Dunkle at DESC, Ext. 2471.

Item I - Copies of The Woods Hole Log published in the early thirties. This was a community newspaper printed by the Darwin Press in New Bedford.

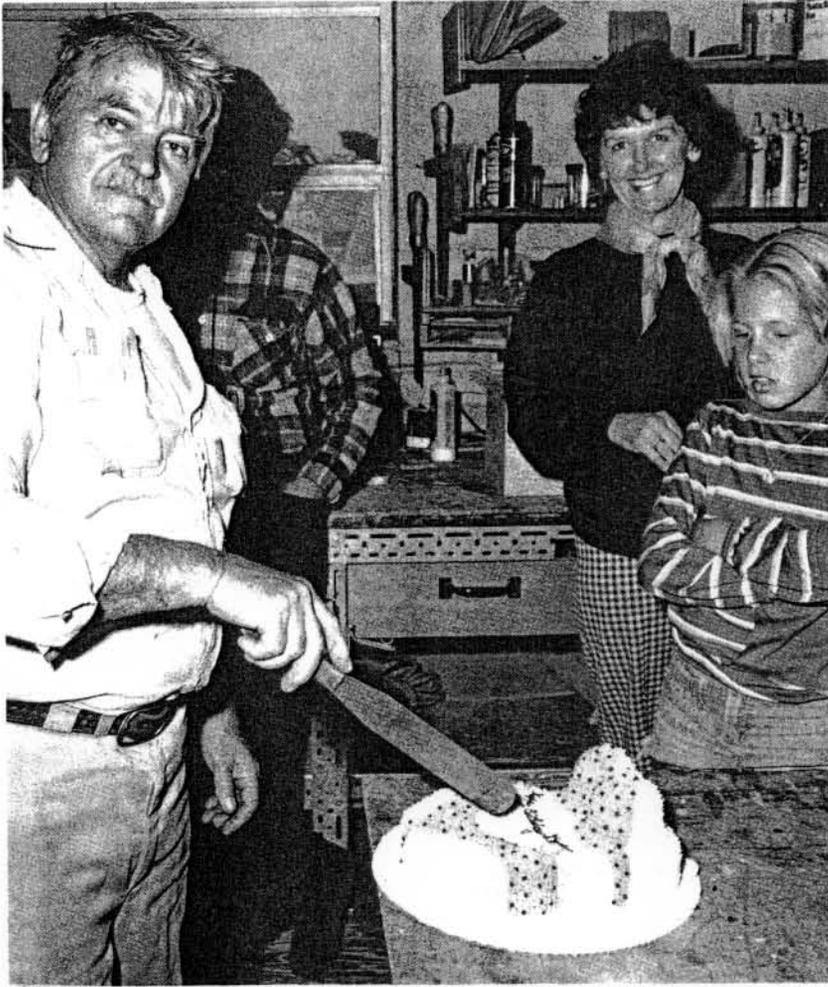
Item II - Copies of The Collecting Net published starting in 1928 and printed until 1953. This was a summer weekly from July 1 to September 15. Edited by Ware Cattell in Woods Hole and published by Darwin Press in New Bedford.

Item III - Photographs of medieval falconry being revived as a hobby of Prof. P. M. Bond of Yale University while he was at the Oceanographic. A story in the July 18, 1934 issue of The Woods Hole Log ran under the headline "Medieval Falconry Being Revived As Hobby of Oceanographic Scientists". Four sad-eyed falcons were pictured perched on various posts about the Oceanographic during the summer of 1934.

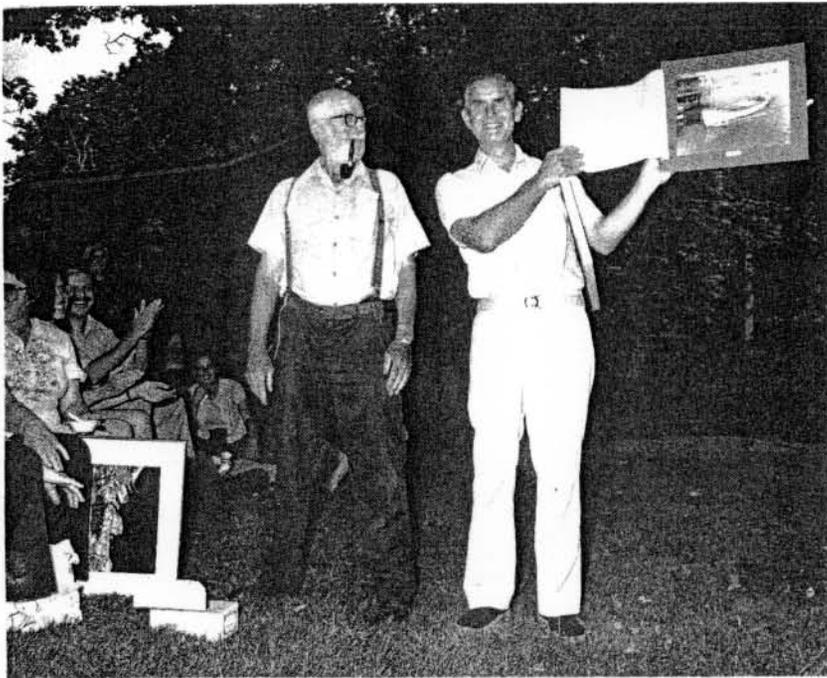


Per M. Wijkman
MPOM Fellow
MPOM/R. Morse
Crowell/x2324

FROM YOUR UNITED FUND CHAIRMAN - A reminder not to forget your pledge cards. I hope this year all hands will find a little something to donate. To date 9% have contributed to the tune of \$2903. Thank you, Nat Corwin



Gus Carlson received a surprise birthday cake on his birthday in June. The bikini-clad cake inscribed "Happy Birthday Gus" was made by Shirley Phares. Shirley and her granddaughter are at right in photo.



MATAMEK HAS SECOND "AT HOME" RIGATTA

The second annual "At Home" Rigatta was held June 30 at W.H.O.I.'s Matamek Research Station near Sept Iles, Quebec.

The Universities of Laval, Guelph and Waterloo and W.H.O.I. were represented at the "sporting events suitable for scientific gentlefolk", cocktails, dinner (everyone dressed for dinner) and sing-song and fire on the beach.

Jacqueline McGlade won the rowing contest, John Gibson won the most improved rower award and Philippe Berteaux, Henri's son, won the Wet Wader Waddle--a new event which has contestants waddle around the station in water-filled hip waders.

Committees and Functionaries:

Rowing Club President (also umpire and starter) - R. John Gibson. Chairman of the course and color commentator - Mr. Phil Ross. Judge - M. Evrade Boudreault. Wet Wader Waddle - Ms. Fay Cotton and Mr. Peter Heinermann. Tea Tent - Ms. Deborah Martin, Johanne Guibault, Lise Paquin and Fay Cotton. Flags and decorations - Ms. Lise Paquin and Mrs. Jackie McGlade. Officials of the Guelph delegation - Dr. and Mrs. H. R. MacCrimmon. Representatives of the British Crown - Dr. and Mrs. Cox. Insect Control - M. Jean Yves Charette. Comité de la Profondeur de la Riviere Matamek - The Laval Engineers (Mario Caron, Denis Blanchet, Marcel Roy). Press Liaison - Mr. James Critchley. Cocktail Party - M. Henri Berteaux et fils. Dinner - Mlle. Lise Paquin et Johnne Guibault. Toastmaster - Mr. Fred Whoriskey. After dinner speakers: Welcoming address - Dr. R. John Gibson. Lake reply - Mr. James Critchley. Toast to Salmon - Mr. Fred Whoriskey. After dinner music - "Denis and Jim". Fire and songs - Marcel, Mario, Denis et Gervais.

Asa Wing is pictured at left as Bob Dinsmore presented him with a photograph of his boat at Asa's retirement party August 31. About 130 of his friends gathered on the lawn behind the Redfield Building at noon to say goodbye. He was at the Institution 20 years. Asa also received the traditional aerial photograph of Woods Hole and an aluminum extension ladder to help him paint the house. Photos by Frank Medeiros.



MATAMEK RESEARCH STATION'S
SECOND "AT HOME"

Photos by John Gibson

PROMOTIONS, APPOINTMENTS, TRANSFERS,

RETIREMENTS

PROMOTIONS

Carl O. Bowin - Geology & Geophysics -
from Associate Scientist to Senior Scientist

Peter G. Brewer - Chemistry - from
Associate Scientist to Senior Scientist

Cheryl A. Burgess - Controller -
from Secretary II to Secretary III

John M. Daly - R/V Knorr - from Mess-
man to Ordinary Seaman

Laura A. Fernandez - Controller - from
Senior Accounting Clerk to Payroll Assistant

Larry D. Flick - Part-Time Cleaner -
Services - to Laboratory Assistant II -
Ocean Engineering

Penny C. Foster - Personnel - from
Secretary II to Staff Assistant-Personnel
Representative

Leon A. Gove - Geology & Geophysics -
from Research Assistant II to Research
Assistant III

Judy Lovering - Personnel - from Secre-
tary II to Staff Assistant-Compensation

Marshall H. Orr - Ocean Engineering -
from Assistant Scientist to Associate
Scientist

Philip L. Richardson - Physical Ocean-
ography - from Assistant Scientist to
Associate Scientist

Derek W. Spencer - Chemistry - to
Associate Director for Research - Admin-
istration

Craig D. Taylor - Biology - from
Assistant Scientist to Associate Scientist.

Patricia A. Thomas - Controller - from
Secretary II to Secretary III.

Geoffrey Thompson - Chemistry - from
Associate Scientist to Senior Scientist

Ralph F. Vaccaro - Biology - from
Associate Scientist to Senior Scientist

NEW APPOINTMENTS

Donald M. Anderson - Biology - Post-
doctoral Investigator

David G. Aubrey - Geology & Geophysics
Assistant Scientist

Donna R. Christie - MP&OM - MP&OM
Fellow

Wayne R. Decker - MP&OM - MP&OM
Fellow

James R. McGoodwin - MP&OM - MP&OM
Fellow

Johnes K. Moore - MP&OM - MP&OM
Senior Fellow

James G. Sanders - Biology - Post -
doctoral Investigator

Anne M. Thompson - Chemistry - Post -
doctoral Scholar

Per Magnus Wijkman - MP&OM - MP&OM
Fellow

CHANGE OF STATUS

Robert R.P. Chase - Physical Ocean -
ography - from Postdoctoral Scholar to
Postdoctoral Investigator

Bruce P. Deslauriers - O. E. - from
Trainee - Ocean Engineering Technician to
Laboratory Assistant I

Thomas M. Leschine - MP&OM - from
MP&OM Fellow to Policy Associate

Yoshiaki Matsuda - MP&OM - from MP&OM
Fellow to Postdoctoral Investigator

Henry M. Stommel - Physical Oceanography -
from Non-Resident Research Staff to Senior
Scientist

Wendy I. Wiltse - Biology - from
Postdoctoral Scholar to Postdoctoral In-
vestigator

TRANSFERS

Robert D. Ballard - from Associate
Scientist - Geology & Geophysics - to
Associate Scientist - Ocean Engineering

Pamela L. Saunders - from Trainee -
Clerk-Typist, G&G to Clerk-Typist -
Administration.

Ronald White - from Fireman/Water Tend-
er, R/V ATLANTIS II to Oiler, R/V KNORR.

RETIREMENTS

Alexander T. Johnston - R/V Knorr -
Radio Operator

Robert G. Ruiter - Geology & Geophysics
Research Assistant

Asa S. Wing - Facilities - Plant
Mechanic

SAFETY FOOTWEAR CREDITED WITH SAVING TOES

Ken Fairhurst is favorably impressed
with his safety-toed shoes. He wrote in a
memo to Cy Fennelly of the Safety Office,
"I wish to commend the Institution for its
safety shoe policy and offer thanks for it
saving me certain broken toes. Recently a
large timber rolled from a stack of dunnage
on the dock and landed on the toe of my
shoe. Two people were required to move the
timber from my toe but thanks to the steel
toed shoes, I was able to continue work with
no damage done."

W.H.O.I. FILM LIBRARY

The W.H.O.I. Film Library has been reviewed and pruned to 17 films that are in good condition and still useful for instructional purposes. These films can be borrowed by W.H.O.I. staff members, but because of the difficulty of maintaining the library, films can no longer be lent to schools. To reserve films (now housed in the Co-op Bldg.), phone Nancy Green, Ext. 2252.

ADAPTATION TO A MARINE ENVIRONMENT - McGraw Hill/LDGO, 1967, 18 min. Research examines ability of a frog from Thailand to live in both fresh and salt water. Condition fairly good.

ALVIN SR. - NET Science Film, 1967, 25 min. Quite out of date but still interesting.

EXPLORING THE OCEAN BOTTOM - THE CAYMAN TROUGH - U.S. Navy, 1977, 27 min. Alvin and Trieste II in 1976 dives. Features R. Ballard.

THE EARTH BENEATH THE SEA - McGraw Hill/LDGO, 1967, 25 min. Instruments used in exploring the ocean floor. Heezen and Tharp explain mapping techniques.

FAMOUS - BOUNDARY OF CREATION - 1975, 25 min. Diving to Mid-Atlantic Ridge with Alvin, Cyana and Archimede. Walter Sullivan narrates.

GULF STREAM - U.S. Navy, 1971, 28 min. F. Fuglister on the Knorr.

THE INCONSTANT AIR - McGraw Hill, 1960, 27 min. Good introduction to meteorology, but outdated.

PLANKTON - LIFE OF THE SEA - U.S. Navy, 1972, 25 min. Life cycles, nutrient requirements, vertical migration, with R. Guillard and G. Grice.

PROJECT DEEP PROBE: GLOMAR CHALLENGER - NET Science Film, 27 min. Sea floor spreading studies, etc. Based at Scripps.

RETURN TO THE SEA - U.S. Navy, 1975, 25 min. Use of submersibles in research. WHOI personnel and Alvin.

THE SALT MARSHES: BARRIER BETWEEN SEA AND LAND - Harper & Row, 1973, 24 min. Ecology of salt marshes and their inhabitants. Lovely film though somewhat damaged. Titles missing.

SCIENCE OF THE SEA - WHOI, 1958, 19 min. A new print of this historically interesting film.

SOUNDS IN THE SEA - U.S. Navy, 1970, 28 min. Sound-producing sea creatures and the equipment used to study them. Quite good.

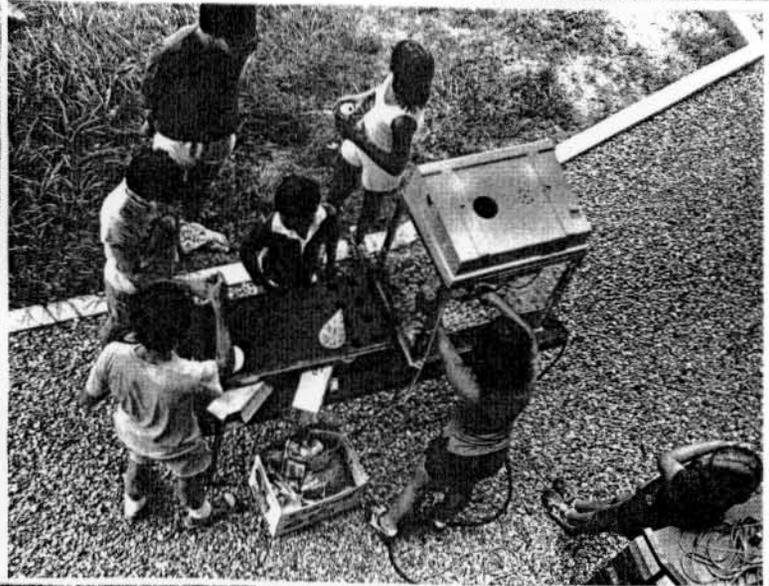
TEXAS TOWERS - Raymond-Delong, 40+ min. Construction and operation of Texas Towers radar station on Georges Bank.

THAT VERY SPECIAL SHIP - NSF, 1974, 27 min. Results from research voyages of Glomar Challenger.

UNDERWATER SOUND - BASIC PRINCIPLES - U.S. Navy, about 1967, 20 min. Good teaching film.

WAVES ACROSS THE PACIFIC - McGraw Hill/LDGO, 1968, 30 min. Tracking Antarctic storms across the Pacific to Alaska and preparation for the study. Interesting though condition of film is shaky and titles are missing.

Missing from the library are two good films - RIVERS IN THE SEA and TURBULENT OCEAN. Any information on their whereabouts would be appreciated.



THE ANNUAL PICNIC - On August 20, after the Falmouth Road Race, about 200 people gathered on the lawn near the Clark Laboratory for a giant picnic. There were pony rides for the children, a magic act, popcorn, music and volleyball in addition to the usual picnic activities--eating and relaxing. Photos by Don Souza.

PROGRESS ON NEW TELEPHONE SYSTEM

Murphy, too, has entered a new Dimension; his law was in spotty operation throughout the Institution on Tuesday morning, October 10, as our new Dimension 2000 received major exposure for the first time.

Over the long holiday, New England Telephone Company had a baker's dozen or more technicians on board changing rotary-dial instruments to touch-tone instruments.

By Monday evening they had completed changes in all major buildings except Redfield Laboratory. On Tuesday and Wednesday work continued with a somewhat smaller crew to complete Redfield, Iselin, 5-10-11 School Street, 38 Water, 9 Maury Lane, in Woods Hole, and DESC, Shore Lab, ESL and GEOSECS at Quissett.

Principal problem areas seem to be in connecting new extension numbers, ringing locations where two or three extensions are located in the same room or area and, under the same circumstances, having extension numbers appear on wrong desks. Where new wiring runs were required to provide service to new extension numbers, it was decided to change instruments and leave the old number temporarily connected. This permitted extension of Dimension feature services immediately to the largest number of people at the expense of some confusion in directory listings.

The initial reception of all the changes has been gratifying. Even those people who have been inconvenienced by the problems cited above have reported them in good humour. Every effort will be made to correct problems as rapidly as possible.

Anyone who needs a change in service arrangement such as instrument location change, additional instrument, new or different extension number, addition to or creation of pick-up group, etc., is requested to send his request to the Facilities office in writing. Please give name, building, room number, and describe change or addition, citing any appropriate existing extension numbers.

Many thanks to everyone at the Institution for their patience while we struggle with Murphy. Special thanks from the Facilities office to the Telephone Company people who have worked so hard to plan and install Dimension. Over two years ago we started planning with Chris Kenney and Bill Sullivan. When they were transferred to other duties, Gerry Cooper and Bob Brennan stepped in and have borne the brunt of the myriad details required to put everything together. Gene Remie, Gordon Campbell, Al Johnston from the cable engineering, facilities engineering and data groups respectively, as well as the women who conducted the training programs, plus many people unknown to us all, made contributions. That stalwart installer of many years' experience at W.H.O.I., Carl Paige, and his foreman, Dick O'Connor, guided the actual physical work in-house of putting all the bits and pieces together.

To Sam Long, Don Souza, and their helpers we owe appreciation for getting out the interim telephone directory in the shortest time ever--about three days.

Again, to you all many, many thanks.

Please note additional telephone instructions (not included in directory) elsewhere in this issue of the NEWSLETTER.

J. R. Mitchell