

NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION

Vol. 14

May 18, 1973

No. 7

U.S.-U.S.S.R. PROGRAM

SOVIETS HERE FOR MARINE POLLUTION TALKS

As a result of the U.S.-U.S.S.R. Environmental Agreement last May, which calls for cooperation between the two countries on over 30 specific projects in environmental research and technology, a group of ten Russian scientists have been invited to take part in an exchange program on marine pollution. Three of the scientists are in the United States this month, and on May 15 they visited the Institution to discuss possible joint research projects and to exchange information on pollution abatement.

The groundwork for this exchange program was laid a year ago when Richard Nixon and Nikolai Podgorny signed a formal agreement for cooperation on various environmental problems, ranging from air and water pollution control to urban problems, earthquake prediction, weather research, and arctic ecology. The specific projects were established by a joint committee of experts from this country and Russia at a meeting in Moscow last September. The Committee designated the Environmental Protection Agency as the "lead agency" for the U.S. in about one-half of the projects.

Members of the United States Exchange Delegation on the Effects of Pollutants on Marine Organisms, who will visit Russia this summer, include W.H.O.I.'s Ed Carpenter. The U.S. scientists are also serving as hosts for the Soviet visit this month.

The Russian delegation will spend two weeks touring marine facilities in Rhode Island, Massachusetts, Connecticut, Florida, Texas, Washington, and California. Dr. Vadim D. Federov of Moscow State University is heading the Soviet Committee, and he is accompanied by Dr. Konstantin S. Burdin - also of Moscow State University - and Dr. Oleg G. Mironov of the Institute of the Biology of Southern Oceans.

During their stopover in Woods Hole, the Russian scientists toured the laboratory facilities and spoke to several W.H.O.I. scientists who are working on oceanic pollution. An evening banquet culminated the day's activities, which were coordinated by Ed Carpenter and Charlie Innis.

CHAIN SUFFERS SLIGHT MISHAP AT SEA

Early this month while engaged in MODE station work, CHAIN hit a 50-foot log and damaged her port propeller. The ship had to be drydocked at Norfolk, Virginia for a few days, where the tail shaft was replaced and two blades repaired.

The ship is now back in the MODE work area, about 170 miles southwest of Bermuda. She is not due home until July 9.

WEBSTER APPOINTED ASSISTANT DIRECTOR OF RESEARCH

Ferris Webster, who has been Chairman of the Department of Physical Oceanography for more than two years, has recently been appointed Assistant Director for Research at the Institution.

Webster has been here since 1958, when he came to W.H.O.I. as a student. He will continue to serve as Acting Chairman of Physical Oceanography until a new chairman is appointed.

NEERS MEETING HELD IN WOODS HOLE

The New England Estuarine Research Society (NEERS) met in Woods Hole for two days at the beginning of May. A total of 150 people - for the most part, scientists involved in coastal and estuarine work - took part in the meeting.

Scientists from W.H.O.I. who presented "work in progress" papers in Redfield Auditorium were Ed Carpenter, Amelie Scheltema, Gil Rowe, Dick Haedrich, and Jim Vaughan. Ken Tenore served on the Arrangements Committee for the NEERS meeting.

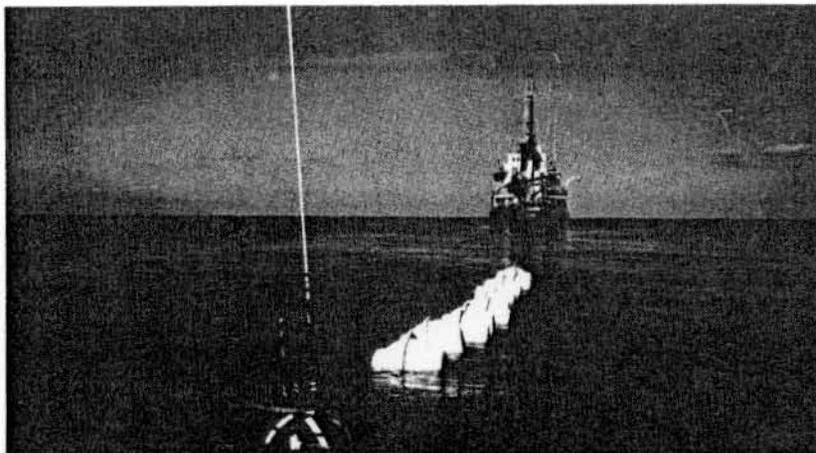
NEERS, which was established in 1969, exists for the purpose of bringing together persons actively engaged in research on estuaries and coastal problems. The Society meets twice a year to exchange ideas and to keep tabs on recent developments.

This month's meeting was highlighted by a banquet at M.B.L. Dining Hall on May 4.

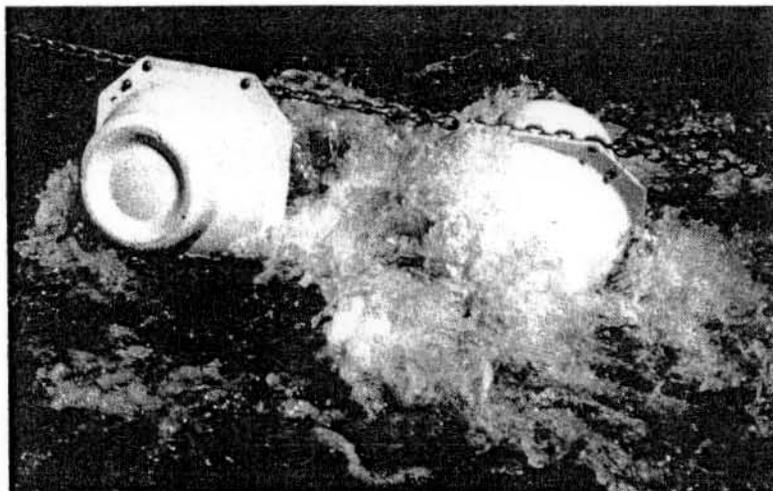
PLASTIC PARTICLES -- HELPFUL??

Scientists at the New York Ocean Science Laboratory feel that polystyrene plastics in the area of Long Island Sound may prove to be useful. One scientist reports he is using them as indicators of water currents, and another believes the plastics can be used to give a more accurate measure of water density than a \$15,000 temperature-salinity unit. The density, which is important in determining currents and fish breeding habits, would be measured by ascertaining the various levels at which the pellets float.

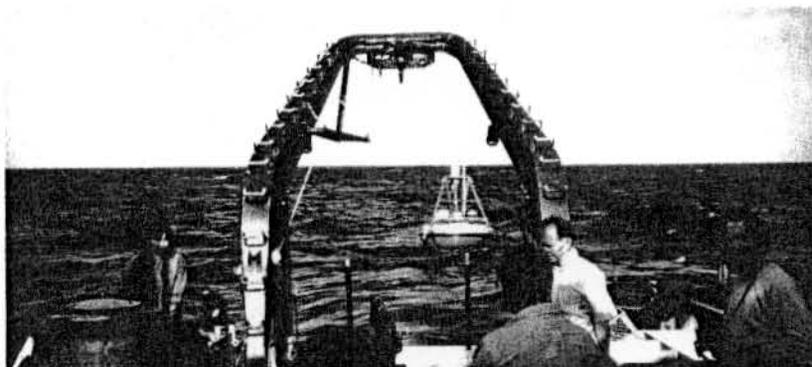
SETTING MODE MOORINGS DURING CHAIN 112



Pictured here is one of 18 intermediate moorings in the process of being deployed. A float containing a radio and lights is just visible in the foreground, with a series of glass balls in "hardhats" trailing behind.



The glass spheres are used for buoyancy -- to keep the moored instruments in their vertical position.



The only surface buoy in the array after being put in the water: it is used as a reference point for the other moorings and contains a radio that transmits signals to Woods Hole. (Photos: R. Heinmiller)

SHUMAKER BRINGS LONG EXPERIENCE WITH SUBMERSIBLES TO NEW JOB

Larry Shumaker has recently been appointed Head of the Deep Submergence Engineering and Operations Section of the Ocean Engineering Department. He comes to W.H.O.I. from Lockheed Missiles and Space Company in San Diego, California, where he was Chief Pilot for Submersible Operations.

At Lockheed, Shumaker took part in testing programs for the Deep Submergence Rescue Vehicles (1 and 2), and piloted the submersible DEEP QUEST on over 100 dives. His previous experience in the Navy included work on the design, testing, and piloting of the bathyscaphes TRIESTE I and TRIESTE II, and he was also involved in the POLARIS program in 1965.

Shumaker is the founder (and two-year president) of the Deep Submersible Pilot's Association. He has done post graduate work in geology and physical oceanography at San Diego State College and the University of California at San Diego, and in 1960 received a special commendation from President Eisenhower for "Contributions to the United States and science, in the field of oceanography".

W.H.O.I. IS WELL-REPRESENTED IN N.A.S.

Joseph Keller, a member of the non-resident research staff of W.H.O.I., has just been elected to the National Academy of Sciences. He is one of 95 new members chosen by the Academy in recognition of their distinguished scientific achievements.

Keller has in the past served as a Staff Member and Lecturer for the Geophysical Fluid Dynamics Program. He was last here during the summer of 1971.

Election to membership in the N.A.S., which was established in 1863 by a Congressional Act signed by Abraham Lincoln, is considered to be one of the highest honors that can be accorded an American scientist. Other members of W.H.O.I.'s non-resident research staff who have been elected to the Academy are Willem V. R. Malkus, Paul Mangelsdorf, and Henry Stommel. Ken Emery is the only resident staff scientist at the Institution who is a member of the N.A.S.

It is interesting to note that 25 Members of the Corporation of W.H.O.I. are currently members of the Academy. They are Eric G. Ball, Detlev W. Bronk, Harvey Brooks, George Carrier, James Ebert, Carl Eckart, Harold Edgerton, Donald Griffin, Phillip Handler, Caryl Haskins, Hollis Hedberg, Augustus Kinzel, Alfred Loomis, Gordon MacDonald, Ernst Mayr, W.D. McElroy, Emanuel Piore, Roger Revelle, William Rubey, Frederick Seitz, Charles Slichter, Charles Townes, Jerome B. Wiesner, E. Bright Wilson, Jr. and Chen N. Yang. In addition, Crawford Greenewalt - an Associate - is a member of the N.A.S., and Alfred Redfield is a Member Emeritus.

WOODS HOLE TO CELEBRATE FIRST MAY FESTIVAL

Woods Hole Community Association is sponsoring a May Festival on Saturday, May 19. In efforts to revive the old custom of the village "get-together," a full day of activities has been planned to appeal to Woods Hole people of all ages.

Beginning at 10:30 a.m. at the Woods Hole School, a Fancy Dress Parade of kids on bikes and carts will wind its way to the Ball Park led by Bill Macleish (on bagpipes). At 11 a.m. is scheduled a Field Day program, followed by a soccer game, the Woods Hole Black Dog Contest, awarding of prizes, and Maypole Dancing at 2 p.m., which is expected to lead the way into general folk dancing and singing later in the afternoon.

There will be special displays by various groups, including the Teen Center, the Fire House, the Library, and the Women's Club. Pony rides and possibly a goat cart ride will be on tap for small children, and booths will be set up offering arts and crafts items, food, plants, books, and "white elephants".

In the event of rain, the May Festival will be postponed one week until Saturday, May 26.

WESTWARD HERE FOR 3 WEEKS

The Sailing Education Association's WESTWARD tied up at Dyer's Dock on May 6 for a three-week stay in Woods Hole. The 99-foot schooner arrived here from work on the continental shelf between Charleston, South Carolina and the Cape.

WESTWARD is in Woods Hole primarily for maintenance and re-fitting, but at the same time she is "open for inspection" by scientists and researchers here. National Marine Fisheries Service personnel are scheduled to use the sailboat this summer, as are several W.H.O.I. biologists.

S.E.A. operates WESTWARD for the purpose of oceanographic study and instruction, and research projects conducted aboard ship have included collection of biological samples, studies of water circulation, and work with underwater sounds.

CONCERT SCHEDULED AT ENDEAVOUR

The Cape Cod Symphony Woodwind Quintet will perform upstairs at Endeavour House on Tuesday, May 22 at 8 p.m. W.H.O.I.'s Jelle Atema is a member of the Quintet, with local musicians Ted Decolo, Mike Duncan, Maureen Herb, and Cindy Hamlin. The concert is free of charge, but limited because of space to the first 100 people.

Oceanographic Follies

REVIVING THE "REVIVAL"

There are a good number of people at W.H.O.I. who remember the Follies -- not only the relatively recent "revival" that was presented in the early 1960's but the two earlier shows performed in 1945 and 1946.

All three Oceanographic Follies performances were presented as a series of vaudeville-type acts, complete with masters of ceremonies, and featuring singing, dancing, magic, comedy, and short skits. Mary Thayer, who is still at W.H.O.I., directed the three shows.

The Revival in 1961 was held free of charge in Community Hall. Its "official programme" lists a renowned cast of about 50 people, including Dave Scott on sound recordings, Juanita Mogardo as candy vendor, and Ferris Webster and Karl Schleicher as puppeteers. Others are pictured here as they performed in the last Woods Hole Follies.

(Photos courtesy of Stanley Reeves)



A Day in Summer at W.H.O.I.
Paul Fye, Clay Morehouse, Jane Broughton



Male Quartet
Earl Doe, Dick Edwards, Red Wright, Gordon Volkmann

NEW FACES



Jack Appleman
Marine Policy Fellow
MPOM/P. M. Fye
Crowell Hse.; Ext. 289/
449



James A. Bailey
O.S.
Marine/J. Pike
CHAIN; Ext. 208



Mary L. Bannister
Research Assistant
Chemistry/O. Zafiriou
Red. 3-54; Ext. 302



Lynda R. Barnes
Temp. Lab. Asst.
G&G/J. Phillips
DESC/ Ext. 540-0734



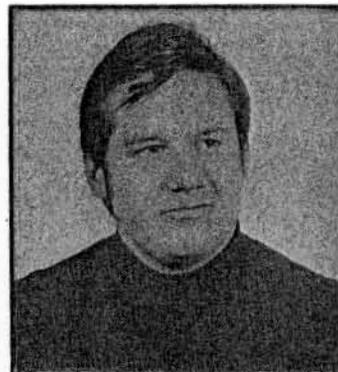
Diane Braga
Secretary
G&G/J. R. Heirtzler
Big. Building/Ext. 281



Michael R. Conley
Wiper
Marine/J. Pike
CHAIN/ Ext. 208



Barbara S. Culliney
Research Assistant
Biology/E. Carpenter
Red. 2-30; Ext. 314



Raymond E. Davis
Research Assistant
G&G/R. Von Herzen
Big. Bldg.; Ext. 249



Ann. M. Dowling
Exec. Secretary
Admn./F. Mangelsdorf
Big. Bldg./Ext. 293



Stephen R. Gegg
Research Assistant
G&G/B. Luyendyk
DESC; 540-0734



U. K. Gopalan
Visiting Inves. (UNESCO
Fellow)
Biology/J. Ryther
Loeb Bldg.; Ext. MBI 457



Lynn Hollien
Secretary
Chemistry/J. Hunt
Red. 3-05; Ext. 328/329



Emily F. Lusena
Clerk/Typist
Admn./A. Henderson
Challenger; Ext. 371



Karl P. Mastantuno
Laboratory Assistant
O.E./M. Rosenfeld
II School St.; Ext. 435



Sunil Mehta
Co-op Student
Chemistry/S. Knott
Big. 304; Ext. 274



Dr. Worth D. Nowlin, Jr.
Guest Investigator
P.O./F. Webster
Smith 309; Ext. 258



Hilda N. Peirce
Exec. Secretary
Admn./P. M. Fye
Big. Bldg./Ext. 218



Christopher M. Pope
Messman
Marine/J. Pike
ATLANTIS II; Ext. 208



Charles C. Price, IV
Research Assistant
Biology/E. Carpenter
Red. 2-30; Ext. 314



William A. Reynolds, Jr.
Laboratory Assistant
O.E./M. Rosenfeld
11 School St.; Ext. 435



Warren J. Sass
Res. Assistant
(Rehire)
O.E./M. Rosenfeld
Swift Hse.; Ext. 439



Junell J. Sayles
Laboratory Assistant
Biology/E. Carpenter
Red. 2-30; Ext. 314



Lawrence A. Shumaker
Research Specialist
O.E./E. Hays
Blake Trailer; Ext. 434



Ann Spencer
Research Assistant
P.O./W. Schmitz
Smith 121; Ext. 238



Rudolf C. Tjalsma
Postdoctoral Investigator
G&G/W. Berggren
DESC; 540-0626



Judith A. White
Laboratory Assistant
Biology/J. Goldman
Red. Bldg.; Ext. 320



Andrew N. Wilner
Summer Employee
Biology/R. Backus
Red. 1-20; Ext. 321



Bob Weeks



Charlie Innis



Tommy Souza



Jim Mitchell



Dave Caulfield, Fritz Fuglister, Al Faller, Jim Mavor, and Hoyt Watson

MARINE POLICY LECTURES PRESENTED

Two lectures in Marine Policy were presented recently in Redfield Auditorium as part of the J. Seward Johnson Lecture Series.

The first, on April 27, was a panel discussion of "The Limits of National Jurisdiction and the Common Heritage Concept," with Professor Myers S. McDougal of the Yale Law School moderating. The two panelists were Ambassador S. Jayakumar, Permanent Representative from Singapore to the United Nations, and Sergio Martins Thompson-Flores, First Secretary of the Brazilian Mission to the U.N.

On May 2, the lecturer was Dr. John R. Stevenson, former chairman of both the U.S. delegation to the United Nations Seabed Committee and the U.S. Government Interagency Task Force on the Law of the Sea. Stevenson, who served as legal advisor to the State Department from 1969 to 1972, spoke on "Some Likely Outcomes from the Next Law of the Sea Conference".

The J. Seward Johnson Lecture Series is supported in part by the Ford Foundation, and it is conducted in cooperation with Harvard University, the Fletcher School of Law and Diplomacy, and the Massachusetts Institute of Technology.

AQUA LAB III DOCKS HERE

The training vessel AQUA LAB III tied up at W.H.O.I.'s dock on Tuesday evening, May 8 for an overnight stay at the Institution. The 142-foot ship is operated by Southern Maine Vocational Training Institute.

Among the various courses offered students at the Institute is a practical training class at sea, which was in progress when AQUA LAB visited Woods Hole.

GOLDFISH BEING TRAINED AS WATER POLLUTION SPOTTERS

Researchers at Polytechnic Institute of Brooklyn, New York have observed that goldfish react in recognizable patterns if minute amounts of pollution enter their water. It has been found at Polytechnic that specific amounts of certain pollutants produce predictably erratic behavior which can be noted, measured, and compared. Therefore, by circulating samples of water suspected to be polluted through tanks inhabited by goldfish, scientists hope to determine the nature of the pollutant from the behavior of the fish.

MARINE POLICY FELLOW TO RECEIVE DEGREE FROM HARVARD

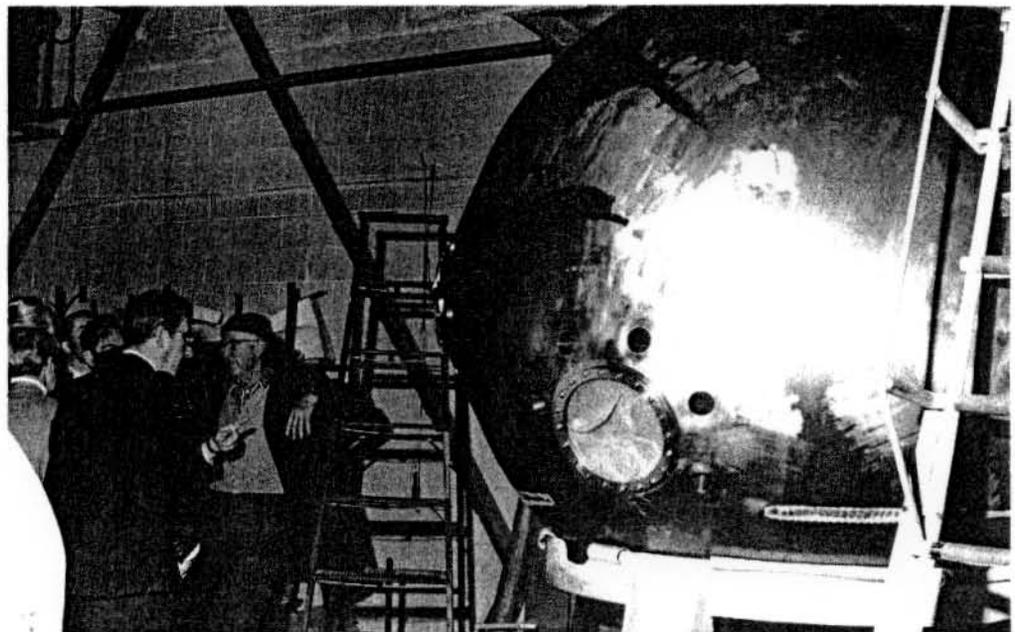
Bill Ahern, one of W.H.O.I.'s Marine Policy pre-doctoral fellows, successfully defended his doctoral thesis recently. He is the first Marine Policy pre-doc to earn his Ph.D.

Ahern's thesis topic was "Should Georges Bank be leased for oil and gas development?" His degree will come from the Public Policy Program, John F. Kennedy School of Government at Harvard.

He plans to leave Woods Hole for California in a few weeks, for a position with the Rand Corporation.

CHILDREN'S SCHOOL OF SCIENCE IN ITS 60TH YEAR

The Children's School of Science is about to open its sixtieth year of instruction for seven through 16-year olds. Residents of Woods Hole, Falmouth, and children of summer investigators are eligible to enroll in one of a variety of courses, including Seashore Life, Geology, Entomology, Oceanographic Electronics, Nature Photography, and Ecology. There are no prerequisites for any of the courses, no exams, and no course credit is given. Further information about tuition and registration may be obtained from The Registrar, Children's School of Science, Box 522, Woods Hole.



Members of an Advisory Committee of the SACLANT Research Centre in La Spezia, Italy met at the Institution last month, and were given a tour of the High Bay Area where ALVIN's titanium sphere is being prepared for installation. The meeting of Advisors was Dr. Fye's last one as U.S. Representative on the Committee.

SPRING PLANT SALE

The third annual plant sale for the benefit of the Woods Hole Library will be held - rain or shine - on Saturday, May 19, from 10 a.m. until noon.

The sale is one of several major efforts each year to help the Library meet its annual budget. Plants have been donated by local friends of the Library and Falmouth merchants.

SUMMER MUSIC WORKSHOP

The Great Harbor Music Workshop will be held during the summer in Woods Hole, under the direction of Mrs. Marie Rhines. It is open to children and adults - both amateur and professional enthusiasts alike - who are interested in an unusual musical activity.

The curriculum is designed to explore the performance of chamber music, and small ensemble classes will meet frequently to play works ranging from the Baroque to modern. Classes will also discuss score analysis and conducting techniques.

To enroll or obtain further information, contact Marie Rhines through Peter Rhines, Physical Oceanography Department. Private coaching in viola, cello, classical guitar, violin, and beginning piano may also be available.

PIGEONS AND PEOPLE

John Teal (Biology) has written a book with his wife, Mildred, entitled Pigeons and People. It is published by Little, Brown and Company.

The 85-page book tells about the history, habits, anatomy, and breeding cycles of pigeons, and contains a chapter on bird protection. It is illustrated by Leslie Morrill.

OCEAN PRACTICUM

The Institution is presently co-hosting, with M.B.L., a six-week "Ocean Practicum" for students from the University of Michigan. This year's program, the third to be offered in Woods Hole, will run through June 14 under the direction of Ed Monahan. Marv Stalcup, Ken Tenore, and Al Erickson are providing the 16 students with instruction in different phases of oceanography.

NOTICES

The Recreation Committee has seven moorings with pulley lines available off the north end of the Redfield Parking Lot for personal use by employees. These limited facilities require a couple of restrictions on the boats considered: (1) maximum length about 18 feet and (2) maximum width about 6 feet. The Committee will review all applications for the moorings to determine eligibility, and the final choice will be by lottery. If an employee had one of these moorings last year he may apply again this year, but his application will not be considered until all new applications have been disposed of. There is a fee of \$10 per season for a mooring, and anyone using one will be expected to keep his boat properly fastened. Application forms are available in Bruce Crawford's office, and should be submitted to him no later than May 31.

Projectors may be borrowed from the Graphic Arts Department (Smith 205) by checking first with Don Souza. Please do not remove this equipment directly from Redfield or Smith Conference Room.

Bob Heinmiller would like to thank everyone who participated, both at sea and ashore, in the setting of the MODE array on CHAIN's cruise 112, legs 1 and 2. Scientists and crew worked hard through a difficult and sometimes hectic cruise. The Buoy Project Operations Group did a marvelous job preparing a huge amount of equipment in a short time. Our thanks to the shops for getting us out to sea and to the crew and officers of R/V CHAIN.

Institution employees are asked to refrain from using M.B.L. parking lots during the spring and summer months. The space is needed by M.B.L. summer students and visiting personnel.

Dave Ross recently returned from a 3-month stay in Jerusalem, where he taught Marine Geology and Geophysics in a new oceanographic program. During this time he met many students who would be interested in participating in our research cruises. Anyone interested in some student help for a cruise (any phase of oceanography) please contact Ross at x216.

From Andy Wessling's Office: Employees who have guests or visitors at the Institution for any length of time are requested to give the names of these people to Personnel, the Mail Room, the Reference Room and Smith Reception Desk. This will ensure delivery of mail or cables which might be sent here for visitors.

Staff Committee has established a study group to examine the existing grievance procedure and make any recommendations they think advisable. The Study Group will submit their report before June 15, and they would appreciate comments from employees. Contact any member of the Study Group: Gerry Metcalf, Joanne Antanavage, Dick Colburn, Tom Rennie, Don Souza, and Bob Walden.

Notices and items of interest for THE NEWSLETTER: call x270.