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BULKHEAD WORK IN LMS PARKING LOT COMMENCES

Rehabilitation of an aging Eel Pond bulkhead alongside the LMS parking lot was begun this week. The entire project will take between two and three months for completion.

The purpose of the work is actually threefold. First is the replacement of the old bulkhead and to realign it on a line parallel with the Eel Pond bridge. In effect, this will create a small increase in the size of the parking lot.

A second part of the work will consist of dredging alongside the new bulkhead to a new depth of about 12 feet. This will permit ASTERIAS, RISK or NOBSKA to tie up in Eel Pond during adverse weather.

A third phase will result in a dressing-up of the entire area. A new bulkhead is to be constructed along the northwest end of the parking lot. This area will then be filled in to provide lawn and other plantings.

Facilities Manager, Jim Mitchell advises that it will be necessary to keep the parking lot closed during the course of the construction.

UNIVERSITY OF PITTSBURGH ANNOUNCES GRADUATE ASSISTANTSHIPS

The University of Pittsburgh is accepting applications for graduate assistantships in its Department of Earth and Planetary Sciences. The assistantships carry a salary of \$1,900 to \$2,850.

Applicants must hold a degree in geology, geophysics, paleontology, biology, physics, chemistry, mathematics, (Cont'd on Page 3, column 1)



Cubmarine Shown Shortly After Its
Arrival In Woods Hole Last Week

INSTITUTION DOUBLES ITS UNDERSEA FLEET

The Institution's deep diving submarine ALVIN now has a little sister, a Perry Cubmarine donated by a leading manufacturer of meters.

The 18 foot submersible was built in 1962, the first of a series of shallow water vehicles constructed by Perry Submarine Builders, Inc., West Palm Beach, Florida, for the Weston Oceanographic Systems, a subsidiary of Weston Instruments, Inc. It is understood Weston used the submarine to conduct underwater sound studies.

The Cubmarine has a beam of three feet and a draft of three feet nine inches. Its four horsepower electric motor gives it a submerged speed of something between one and two knots and a range of about 20 miles. Its conning tower is fitted with 12 plexiglass viewing ports. (Cont'd on Page 3, column 2)

NEW BOOKS REC'D IN MBL LIBRARY

TIMMERMAN, J.: Physico-chemical constants of pure organic compounds. Vol. II

MASON, WARREN P., Editor: Physical Acoustics. Principles and Methods. Vol. 3, Part B - Lattice Dynamics, 1965.

ANDREWS, LAWRENCE J., and KEEFER, RAYMOND M.: Molecular complexes in organic chemistry.

BUTLER, JAMES NEWTON, and BOBROW, DANIEL GUREASKO: The calculus of chemistry. With an introduction to computer programming.

JONES, MEURIG P., and FLEMING, MARSTON: Identification of mineral grains.

HEINRICH, E. Wm.: Microscopic identification of minerals.

WHITTARD, W. F., and BRADSHAW, R., Edrs: Submarine geology and geophysics.

FLUGGE, S., Edr.: ENCYCLOPEDIA OF PHYSICS, VOL. III/3

New Journals Rec'd in MBL Library

Geophysical Prospecting
Current Tissue Culture Literature
Tissue Culture Bibliography
Birth Defects Abstracts
Geophysikalische Abhandlungen
Memoirs of the Royal Astronomical Society

4 ARRIVALS AND DEPARTURES

The Institution welcomes:

George H. Power, Research Associate to Dr. Melvin Rosenfeld. Before coming to WHOI, he was a programmer, also, for the Mitre Corporation. Mr. Power received his B.S. degree in Civil Engineering and his M.S. in Mathematics, from Northeastern University.

Carlos Porrata, laboratory assistant to Dr. Earl Hayes. He was formerly a placement manager for an employment agency.

Daniel Blake, messman on CRAWFORD.
Thomas Pennypacker II, messman on ATLANTIS II.

Janet McNew, typist and relief receptionist, working for Jim Mitchell.

Margaret Chaffee has returned to the Institution as a Research Assistant to Andy Bunker. She has recently been at the National Center for Atmospheric Research in Boulder, Colorado.

The Institution will miss:

Louise Markgren, secretary in the Biology Department.

Samuel Vincent, first mate on GOSNOLD.
Alden Cook, radio operator on ATLANTIS II, is leaving to sail with the Merchant Marine.

CLASSIFIED ADS

FOUND -- A Volkswagen key, one pair man's gray gloves, and one pair of prescription sunglasses. These items can be claimed at LO Reception Desk.

FROM THE DEPARTMENT OF SLIGHT MISNOMERS

From a letter received in the Public Affairs Office:

"Dear Sirs:

"I am doing a report on the ecology of the New England coastline and I have been advised to write to you. I would appreciate any information you may have on the subject.

"Yours truly,"

NEWS OF THE SHIPS

ATLANTIS II

Left last Tuesday for a 20 day cruise to the south of the Gulf Stream for further studies of two eddies there. Fritz Fuglister on board as Chief Scientist.

CHAIN

Shipyard work continues at an East Boston facility. Due in Woods Hole Jan 27.

CRAWFORD

Still due to depart Jan 25 for a four day cruise to the Gulf of Maine with Bob Conover as Chief Scientist.

GOSNOLD

This week has been making daily runs in local waters to test, evaluate and modify various seismic recording equipment. Bud Knott on board as Chief Scientist.

ALVIN

It appears likely there will be about a one week delay in completion of work at Otis AFB.

C54Q

At Otis AFB. No flights scheduled.

COMINGS AND GOINGS

Dr. Arthur E. Maxwell and Dr. J. B. Hersey attended a joint meeting of the Advisory Committees to the MOHOLE Project in Houston, Texas, on January 4 and 5.

Mr. Clayton F. Black, of the Bissett-Berman Corporation, Santa Monica, Calif., visited with Dr. John Beckerle on January 6 and 7. On January 6, Mr. Black gave a presentation on "Oceanographic Turbulence and the Use of the Structure function in Describing non-stationary Turbulent Processes," in the LO Conference Room. He is here today to discuss this topic further with individuals who wish to do so.

Dr. Fye attended the Winter meeting of the Board of Trustees held in Boston on January 5.

Dr. Emery attended the meeting of the JOIDES Planning Committee on 17 December at Miami, Florida. They discussed past results as well as future work of JOIDES and deep sea drilling.

FULBRIGHT-HAYS AWARDS
AVAILABLE FOR STAFF MEMBERS

A revised list of lecturing and research awards still available for 1966-67 has just been received and may be consulted on the Bulletin Board, first floor, Main Building. There are openings, among other things, in Biochemistry, Biology, Engineering, English Literature, Geology, Mathematics, Physics, and Zoology.

Staff members who wish to receive spring announcements of Fulbright-Hays awards for 1967-68 are advised to request them now of the Committee on International Exchange of Persons, Conference Board of Associated Research Councils, 2101 Constitution Avenue, N.W., Washington, D. C., 20418.

PITTSBURGH (Cont'd from Page 1)

or engineering awarded not later than July of 1966. They must have achieved an average grade point of 3.0 or better.

Areas of research will include fields such as Marine Sedimentation and Structure, Mass Spectrometry, and Propagation of Hydromagnetic Waves.

According to the University's announcement, an oceanographic station is under construction in the Virgin Islands where programs in various marine sciences will be operated. These programs are under the direction of Dr. A. F. Frederickson.

In addition to studies at the University of Pittsburgh, related research will also be conducted at the Carnegie Institute of Technology. The course work and research programs of the two institutions are designed to be complementary, and students are encouraged to make use of the facilities at both schools.

For further information, consult the announcement from the University. This has been posted on the bulletin board of the Main Building.

CUBMARINE (Cont'd from Page 1)

3

This is not the sub's first visit to the Institution. It was leased by Dr. William Schevill during the summer of 1962 for a period of about one month.

The Cubmarine should be well suited for biological, chemical and geological studies in the shallower waters of the Continental Shelf.

Views of the arrival of the Cubmarine at Woods Hole may be seen on local television newscasts this evening.

URI PROFESSOR SUGGESTS
NEW FISHERIES LIMIT

A new standard for defining a nation's "fisheries limits" has been suggested by a University of Rhode Island professor.

Writing in the latest issue of "Maritimes," official quarterly publication of the URI Graduate School of Oceanography, Dr. Andreas Holmsen suggested that instead of defining fisheries limits in terms of "miles from the shore line" it would be more logical to use a 100-meter or 200-meter depth contour line in the ocean.

"According to international agreements," he said, "a country has the exclusive right to the resources on its continental shelf, such as oil or mineral deposits and even oysters. Only the fish is a resource 'free for all.'"

The whole issue of fisheries limits, he said, has been clouded by the mistaken belief that "territorial limits" and "fisheries limits" are the same thing.

If a 200 meter depth contour line were adopted as the fisheries limit for the United States, the distance from land on the East Coast would run from about 10 miles outside Miami to about 170 miles on the George's Bank and in the Gulf. On the West Coast the line would run between 3 and 40 miles from shore.

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INSTITUTION MEETINGS ANNOUNCED

Journal Club

10 Jan "Mineralogy and Stratig-
raphy of Joides Cores"
Dr. John Schlee and
Dr. John Hathaway, WHOI

17 Jan "Air and Space Reconnaissance of the Ocean: Opportunities and Limitations"
Dr. Gifford C. Ewing,
WHOI

Peanut Butter Club

Today Carl Bowin will show
slides taken during CHAIN
Voyage No. 55 to the Car-
ibbean.

14 Jan Matt Salisbury, MIT grad-
uate student who made a
cruise to the Indian Ocean
with Carl, will show photo-
graphs and discuss his
studies in the Icelandic
Rift Zone.

Film Society

14 Jan "Sparrows Can't Sing"
A Restoration-style comedy which
captures the flavor of a cosmopolitan
dockside district in today's London.

TWELFTH-NIGHT

The town we lived in before we moved to Woods Hole was a great deal like the town of Falmouth. The townspeople enjoyed their neighbors and they enjoyed their town too. They liked to dress up occasionally. There was a grand parade on the Fourth of July and fireworks that night. Thanksgiving was a day to remember.

It wasn't until Christmas time, however, that the town went all-out to brighten things up. The downtown streets were lined with lighted Christmas trees. The small village green, known through most of the rest of the year as Jackass Park, was aglow with lights, trees and Christmas figures.

The final event of the holiday season, however, did not come until Twelfth-night when everyone took down his Christmas tree and the town held a community tree burning. The burning was done down on the sandy beach of the Bay under the supervision of the Fire Department. One or two kids got tumbled into the Bay and had to be rushed home for a change of clothes. The older children sang Christmas carols which the grown-ups spoiled with their off-key tones, and the local ministers vied with each other for the longest and most resolute prayer.

For those whose Sunday School training is too far distant to remember, Twelfth-night is the evening of January 6th, the feast of the Epiphany, a celebration of the coming of the Magi. In medieval times, it marked the conclusion of the Christmas festivities.

Admittedly, this editorial is appearing too late for a Twelfth-night Christmas tree burning in 1966. It does seem, however, that Woods Hole, Massachusetts, U. S. A., is a fitting place for such a celebration in the future. Why doesn't someone in the Institution mark it down on his 1966 calendar for the next Christmas holiday season?