



WHOI
DOCUMENT
COLLECTION
June 1984

NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION

ANNUAL MEETINGS TO BE HELD JUNE 22

The 55th Annual Meetings of the Trustees and Members of the Corporation will be held on June 22. Mike Purdy, associate scientist in G&G, will present the science report, entitled "The Seismic Structure of Oceanic Lithosphere." The 9th Bigelow Medal will be awarded at 3 p.m. in Mark 507 to Arnold Gordon of Lamont.

ALVIN TURNS 20 THIS MONTH

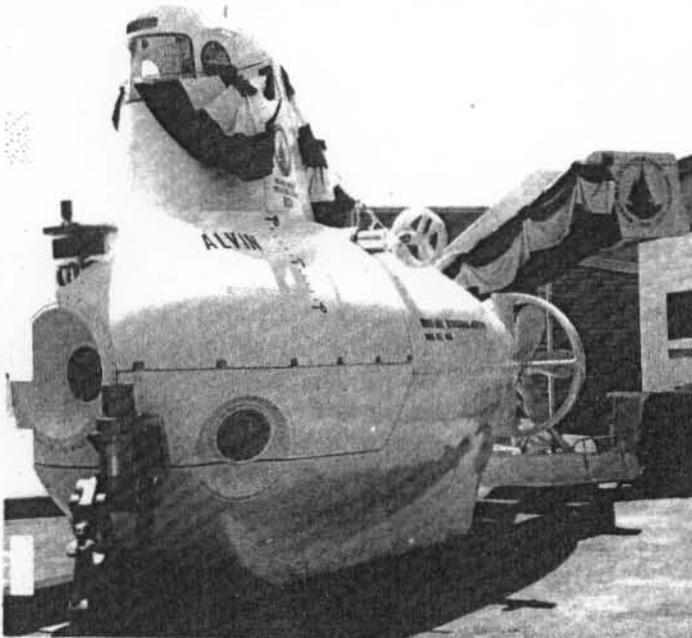
How time flies! This month's annual meetings mark the 20th anniversary of the commissioning of the DSRV ALVIN.

In June of 1964 on a bright, sunny day, 500 people from all over the country attended the commissioning ceremony held in the Smith Laboratory parking lot for the newly-acquired submersible.

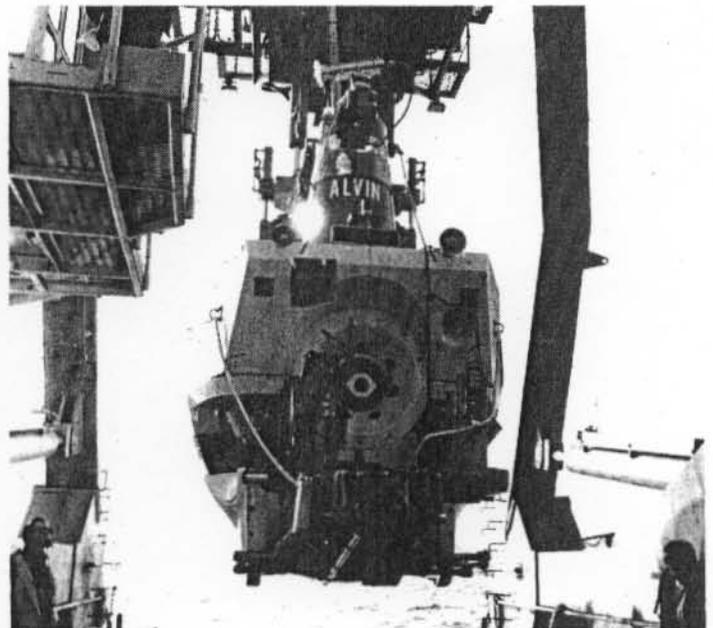
Today, 20 years later and with 1,400 dives to its credit, DSRV ALVIN is known the world over by young and old,

scientists, scholars, school children, industrialists, members of Congress and other government officials as the vehicle that has enabled marine scientists to explore and observe the deep ocean and to conduct experiments on the sea floor. This work has contributed in a major way to our overall understanding of the marine environment.

Associate Director for Research Derek Spencer sent a letter to the ALVIN group which read in part, "ALVIN's scientific and technological accomplishments as well as recovery from adverse incidents such as a swordfish attack and ten months in wet winter storage are all a credit to the dedicated team of individuals who, down through the years, have worked on the program. The marine scientific community and your fellow workers here in Woods Hole salute you the ALVIN Team. We are proud of your accomplishments and send along our congratulations and best wishes for continued success in the years ahead."



ALVIN --Version #1-- July 5, 1964. Commissioning Day.



The new ALVIN with its ATLANTIS II A-frame launch system in an April 1984 photo by Rod Catanach.

JANNASCH ELECTED TO GERMAN ACADEMY

Senior Scientist Holger Jannasch of the Biology Department has been elected a Corresponding Member of the Gottingen Academy of Sciences in West Germany. This Academy was founded in 1751 by George II of Britain who was then also Grand Duke of Hanover, Lower Saxony. Because of the country's late unification in 1871, Germany has no single National Academy but instead supports a small number of prestigious University Academies such as Gottingen, Halle (in East Germany) and Heidelberg. The Gottingen Academy cannot have more than 120 regular and corresponding members.

The Academy, in honoring Holger (a graduate of Gottingen University) "hopes that by this testimony of its own judgement and benevolence it will bring about that he may share part of his research and the fruits of his genius and learning" (translation from the Latin on the award certificate).

Holger, who teaches a course in Marine Microbiology for the University of Gottingen in Naples every three years, has been invited to present an inaugural speech at Gottingen later this month.

THREE WHOI SCIENTISTS ELECTED AAAS FELLOWS

Three of the 269 newly elected Fellows of the American Association for the Advancement of Science (AAAS) are WHOI biologists: Fred Grassle, Holger Jannasch, and Peter Wiebe.

A Fellow is described as "a member whose efforts on behalf of the advancement of science or its application are scientifically or socially distinguished." The 1984 Fellows were selected by the AAAS Council during the Association's annual meeting, held this year in New York City May 24 - 29.

AAAS, formed in 1848, is the leading general scientific organization in the U.S. It currently has some 136,000 individual members and about 285 affiliated scientific societies and academies of science.

CAPUZZO PROMOTED TO TENURED POSITION

Judith M. Capuzzo has been promoted to Associate Scientist with tenure, making her the only woman on the tenured staff at the present time. Judy came to the Institution in 1975 as a Postdoctoral Scholar. In 1976 she worked as a Postdoctoral Investigator until her appointment as Assistant Scientist in December of that year. She was promoted to Associate Scientist in 1980.

Judy has an undergraduate degree in biology from Stonehill College and her master's and doctorate in zoology from the University of New Hampshire. She has served as an instructor in the Cornell-Penn AQUAVET program (1977-1983) and as a visiting professor at Bridgewater State's Department of Earth Sciences and Geography (1978-1982).

Judy's research interests include the physiological ecology of marine animals and the effects of pollutants on these creatures, as well as aquaculture invertebrate nutrition. She is the author or co-author of 35 scientific publications.

PENZANCE FOUNDATION GRANT AWARDED TO WHOI

The Penzance Foundation has made a grant of \$100,000 to WHOI to be used at the discretion of Director John Steele.

In announcing the award, Dr. Steele noted the "immense value" of unrestricted grants in allowing the Institution to take initiatives that would otherwise not be possible. Dr. Steele said he was "deeply grateful" for this confidence shown in the Institution.

The Penzance Foundation was established through the estates of the late Edna McConnell Clark and W. Van Alan Clark. During their lifetimes, the Clarks were friends and generous benefactors of the Institution. The Clark Laboratory, dedicated in 1974, was named in their honor.

July 4 is a legal holiday. Enjoy the day.

WHOI REPRESENTATIVES VISIT JORDAN

David Ross, Director of the Marine Policy and Ocean Management Program, and George Grice, Associate Director for Scientific Operations, spent a week in Jordan last month meeting with representatives of various marine science facilities in that country with the goal of developing and defining priorities for a potential U.S.-Jordanian cooperative program. Prominent among the research facilities visited was the Aqaba Marine Science Station, run jointly by Yarmouk University and the University of Jordan (the two major universities in Jordan), where Dave gave a seminar on the Gulf of Aqaba. George presented his seminar on "Coastal Pollution Experiments" at the University of Jordan.

Dave reports that there is serious concern in Jordanian society about the environment. An especially important issue is water for farming; water loss by evaporation in canals and other reservoirs is approaching 90 percent.

Another important issue is pollution. The coast of the Gulf of Aqaba consists of an alternating sequence of pollution inputs (shipping, phosphate loading) and open areas (tourism, swimming). Jordanians have begun to study the effects of phosphates in their environment for which Dave promised to send samples from the piston cores he took in the central parts of the Gulf.

In addition to general monitoring of the Gulf region for hydrocarbons, heavy metals, wind-transported particles, and local pollution inputs, Dave reports that there is a need for physical oceanography studies, particularly currents, in the region. "There is a need for these general circulation studies and, likewise, evaluation of the effects of wind-driven transportation," says Dave. He also adds that "working with the Jordanians opens the possibility of also working with the Egyptians, the Saudis, and others in the region, which may be particularly important in the monitoring aspect."

A scheduled stop on the trip was a visit with Her Majesty Queen Noor, who Dave reports was very enthusiastic in her support for any cooperation and assistance WHOI could give the Jordanians for their

needs in the Gulf of Aqaba. Says Dave, "Without trying to overstate it, her support was extremely strong and she stated that the King shared her sentiments. She felt that if indeed we were to bring a group of experts to visit, both she and the King would participate in the meeting. I believe we all left feeling very encouraged about the meeting and the possibilities for cooperation. I gave her a copy of my oceanography book and invited her and the King to visit Woods Hole."

George and Dave look forward to a return trip to Jordan in a few months with other Woods Hole scientists with hopes of developing a long-term marine science program in that country.



George Grice and Dave Ross met Queen Noor during their trip to Jordan last month.

LIBRARY NOTICE - LOST BOOK

Anyone knowing the whereabouts of the World Ocean Atlas, Vol. 1, Pacific Ocean, Russian, No. 890-A, should contact Bill Dunkle at the Data Library, ext. 2471.

NEW SEA GRANT INITIATIVE FUNDS AVAILABLE

The Woods Hole Sea Grant Office has initiative funds available for new projects and support for graduate student research. Awards are generally in the \$5,000 range and proposal writing is minimal. Contact Dave Ross, ext. 2578, or Ellen Gately, ext. 2398, for more information.

ASSISTANT SCIENTIST JOINS BIOLOGY DEPT.

Robert J. Olson has been appointed an assistant scientist in the Biology Department. He received his bachelor's degree from Willamette University in Salem, Oregon, and his doctorate from the University of California at San Diego.

Bob was a postdoctoral research associate at MIT over the past three years, studying water resources. His particular research interest is microbial ecology using flow cytometry. Bob has also done considerable work in the Antarctic on nitrifying bacteria and phytoplankton; he is the author or co-author of 10 papers.

SUMMER EXHIBITS IN WOODS HOLE

The WHOI Exhibit Center, located in Endeavor House on School Street, opened for the summer on June 14. Exhibit hours are Monday to Saturday, 10 a.m. to 4 p.m. until Labor Day. Admission is free. In addition, several other exhibits will be open to the public in Woods Hole. The National Marine Fisheries Service Aquarium will open mid-June; hours will be 10 a.m. to 4:30 p.m. seven days a week. There is no admission charge. The Marine Biological Laboratory offers a one-hour tour of their facilities Monday through Friday at 1:30 p.m. The tour is limited to the first 10 registrants; contact the Public Information Office at MBL for more information. MBL also offers a display of "Science and the Squid" in the Lillie Building lobby until Labor Day. Bradley House, operated by the Woods Hole Historical Society, is open Wednesday and Saturday from 11 a.m. to 4 p.m. in June and Tuesday through Saturday from 11 a.m. to 4 p.m. during July and August. Admission for non-members is 50¢.

NEWSLETTER NOTICES - Please send items of interest to the oceanographic community to Anne Rabushka, editor, Co-op, ext. 2271.

SAFETY TIP - TRUCKS AND PASSENGERS

by Eric Spencer, Safety Officer

The following is a partial excerpt from a communique published by the National Transportation Safety Board:

"About 9:30 p.m. on October 6, 1982, a U-HAUL rental truck was traveling southward on U.S. Route 29-A near Lynchburg, Virginia. The truck cab was occupied by a driver and one passenger and 64 passengers were riding in the enclosed 24-ft. long, 7-ft. wide rear cargo area of the truck. As the driver was maneuvering a relatively sharp right-hand curve in a posted 35 mph speed zone, the truck traveled across the center line and overturned onto a Volkswagon Beetle. Two passengers were killed, and 50 passengers, including the Volkswagon driver, were injured. The truck driver and the truck cab passenger were not injured."

Although this is an extreme case, we often see WHOI employees and students standing in the rear or sitting on the sides of the cargo area of the pickup trucks. There have been a number of accidents and near misses involving people being thrown around and cargo movement causing injury. Passengers should never travel in the rear of the pickups unless it is absolutely necessary. If it is required, they should be seated on the floor or on well-secured temporary seats. Cargo should be securely tied down to prevent shifting during sudden stops or unexpected emergency maneuvers. If a large group is required to do certain work, it would be much safer to have the crew follow in another vehicle.

MIT/WHOI 1984 JOINT PROGRAM ADMITS 21

The 1984 entering class for the MIT/WHOI Graduate Education Program consists of 21 students (a total of 36 were offered admission, 2 deferred until 1985). The 64% acceptance rate is consistent with the ten-year average.

Out of the class of 21, 8 are female and 4 are from countries other than the United States. The applicant pool numbered 114, a drop from last year's 144.

(continued)

1984 STUDENTS continued

Winner of this year's Paul Fye Fellowship is Susan E. Allen, a physics major from Queens University in Canada. The Fye Fellowship was established by friends and Trustees of the Institution upon Paul Fye's retirement as Director. It rewards an outstanding applicant; each department was able to nominate a student to a pool from which the selection committee chose the most deserving candidate.

Susan is also the recipient of a Canadian National Science and Engineering Research Council Fellowship.

Among the other members of the 1984 entering class are a 1983 guest investigator in biology, Peter Franks; a 1983 summer student fellow in chemistry, William Spitzer; a 1983 visiting investigator in ocean engineering, Meir Feder; and Virginia Fry, a research assistant in G&G.

MEMBERS OF THE MIT/WHOI JOINT PROGRAM ENTERING CLASS FOR 1984

Name	Degree	School	Field	Hometown
BIOLOGY				
Joon W. Choi.....	BS.....	Seoul Nat'l....	Botany.....	Taegue, Korea
Peter J.S. Franks.....	BS.....	Queens.....	Biology.....	Toronto, Canada
	MS.....	Dalhousie.....	Oceanography	
Alan J. Lewitus.....	BA.....	Rutgers.....	Bio Sci.....	Sparta, NJ
	MS.....	Moss Landing..	Mar Sci	
Kirby S. Olson.....	BS.....	Eckerd.....	Biology.....	Harvard, MA
CHEMISTRY				
Brian P. Palenik.....	BS.....	Princeton.....	Engineering.....	Hoboken, NJ
	SM.....	MIT.....	Civil Engr	
William S. Spitzer.....	BA.....	Harvard.....	Chemistry.....	Hewlett, NY
GEOLOGY AND GEOPHYSICS				
Virginia A. Fry.....	BS.....	Penn State.....	Geophysics.....	Jenkintown, PA
David P. Genereux.....	BS.....	U Delaware.....	Geology.....	Worcester, MA
Anne V. Judge.....	BA.....	Williams.....	Physics.....	Gorham, NH
Laura S.L. Kong.....	ScB.....	Brown.....	Geology/Physics...	Honolulu, HA
Elisabeth L. Sikes.....	BA.....	Wesleyan.....	Env Sci.....	Guilford, CT
	MS.....	U N Carolina...	Mar Sci	
Niall C. Slowey.....	BS.....	Tufts.....	Geology.....	Burlington, MA
	MS.....	U N Carolina...	Geology	
OCEAN ENGINEERING				
Peter H. Dahl.....	BS.....	U Washington...	Biology.....	Seattle, WA
	MS.....	U Washington...	Fish Acoustics	
Meir Feder.....	BS.....	Tel-Aviv.....	Elec Engr.....	Tel Aviv, Israel
	MS.....	Tel-Aviv.....	Elec Engr	
Elizabeth S.S. Macomb...	BA.....	Barnard.....	Physics.....	Madison, CT
Hagen T. Schempf.....	BE.....	Stevens Inst...	Mech Engr.....	Mannheim, W. Ger.
PHYSICAL OCEANOGRAPHY				
Susan E. Allen.....	BS.....	Queens.....	Physics.....	Kingston, Canada
Janice T. Campbell.....	BS.....	UC Irvine.....	Mech Engr.....	Van Nuys, CA
	MS.....	UC.....	Mech Engr	
Stephen D. Pierce.....	BS.....	Tufts.....	EE/Physics.....	Concord, MA
Steve G. Schlipf.....	BS.....	Caltech.....	EngrApSci.....	San Jose, CA

BENEFIT BRIEFS

Tel-Med is a telephone library of over 200 taped messages covering medical and dental information. It is offered as a public service by the Health Thyself Program of Blue Cross/Blue Shield and Cape Cod Hospital. Its hours of operation are from 8 a.m. to 4 p.m., Monday through Friday. Contact Terri Monroe, ext. 2706, for a brochure listing the various tapes and their numbers.

If you have been thinking about enrolling in TIAA/CREF, a tax sheltered annuity, but have just not gotten around to it yet, write down any questions you may have about it and reserve Wednesday, June 27th. TIAA/CREF representative, Dick Shaffer, will be in Personnel at 2:30 p.m. to discuss the advantages with you. You can stop by Blake or call him on ext. 2706.

The CREF unit value ending May 31 is estimated at \$61.09. The April 30 value was \$65.34.

IN MEMORIAM

The Institution announces with sorrow the death of Francis A. (Dick) Richards on May 9. He was 67.

Dick Richards, a chemical oceanographer at WHOI from 1950 to 1959, was awarded a Guggenheim Fellowship to Norway in 1956. He left the Institution for the Department of Oceanography, University of Washington, Seattle, the school from which he had received his doctorate.

A memorial service was held on May 16 at the University of Washington, where the F.A. Richards Memorial Scholarship has been established. His family requests that, in lieu of flowers, contributions be made to the fund.

WHOI T-SHIRTS NOW IN STOCK

WHOI T-shirts, sweatshirts, hats, and tote bags are now available in various colors and sizes. Contact Dave Simoneau in the Buoy Lab, ext. 2267, from 12 to 1 p.m. for more information.

NEW FACES

June 1984



Retha J. Charette
Secretary
Services
Quissett Warehouse
x2412/N. Anderson



Dale V. DePonte
Secretary
Controller
Geosecs/x2410
R. Masse



Marianne Draper
Key Entry Operator
Controller
Challenger/x2335
V. LeFavor



Laura Kong
J.P. Student
Geology & Geophysics
Clark 120/x2473
T. Brocher



Kirby S. Olson
J.P. Student
Biology
Redfield 1-04/x2614
R. Harbison



Robert J. Olson
Assistant Scientist
Biology
Clark 413/x2565
J. Teal

NEW FACES continued



Hagen Schempf
J.P. Student
Ocean Engineering
Blake Trailer/x2607
D. Yoerger



Mary Nan Weiss
Exec.Asst./Associates
Development
Clark 212A/x2392
P. Hart



Xiaoping Jai
Guest Investigator
Chemistry
Fye 116/x2353
J. Farrington

PROMOTIONS AND OTHER PERSONNEL CHANGES

Recent promotions include:

- PATRICIA M. DE BOER - Controller - from Acct. I to Financial Analyst/Auditor.
GREGG R. DIETZMANN - Biology - from Laboratory Asst. II to Research Asst. II.
MARC N. EBENFIELD - OE - from Part-time Helper to Laboratory Asst. I.
LISA M. EHRMANN - G&G - from Laboratory Asst. to Research Assistant II.
LINDA A. HICKE - Chemistry - from Laboratory Asst. II to Research Assistant II.
JOHN W. HURD - Biology - from Part-time Helper to Laboratory Assistant I.
SAMUEL J. LOMBA - from Shipping & Receiving Clerk/Serv. to Stockroom Clerk/Purch.
DANIEL R. MARTIN - G&G - from Laboratory Asst. II to Research Assistant II.
BARBARA A. NEWELL - from Secretary IV in Admin. to Research Assist. II in OE.
REBECCA W. PRATT - Development - from Part-time Helper to Clerk-Typist.
WILLIAM T. SADLER - OE - from Laboratory Asst. II to Research Assistant II.
DEBORAH K. SHAFER - Chem. - from Research Asst. III to Sr. Research Assistant.
LYNN M. SIMONEAU - Library - from Part-time Helper to Clerk-Typist.
MARION H. SMITH - Chemistry - from Part-time Helper to Laboratory Assistant I.
MELINDA M. SWEENEY - Biology - from Part-time Helper to Laboratory Asst. I.
DOUGLAS K. TIERNAN - Facilities - from Trainee-Asst. Elec. to Asst. Elec.
GLEN P. WILLIAMSON - OE - from Laboratory Asst. II to Research Assistant II.

Recent transfers include:

- CATHERINE M. HERRITY - from Library Asst. to Research Asst. II in the Coastal Research Center.
TRACEY McEACHERN - Secretary III - from the Controller's Office to Admin.

Recent appointments include:

- JERRY CHENEY - Biology - Visiting Invest.
ROBERT J. OLSON - Biology - Asst. Scientist.

Recent retirements include:

- George E. Pierce - Marine - Bosun.
Elizabeth Schroeder - PO - Research Assoc.

ADDITIONS TO WHOI FAMILIES

Congratulations go out to two WHOI couples on the births of their babies. The Silvas are the proud parents of Ethan Georman, born May 22 at Falmouth Hospital. He weighed 8 lbs., 6 1/2 ozs. Maynard is a research specialist and Rosamund is a research assistant, both in MPOM. Steve Boyd (research associate in Biology) and Mary Ann Daher (research assistant in Biology) welcomed Garrett Hill into the world on May 15 at Falmouth Hospital. Their son weighed 7 lbs., 14 ozs.

OCEANOGRAPHIC SHIP NOTES

KNORR returned to Woods Hole at 10 a.m. on a bright and sunny May 11. The crowd waiting at the dock welcomed the ship and crew with signs and balloons -- and, in some cases, a bit of the bubbly. KNORR continued on to the Boston Shipyard for routine maintenance and is due back to Woods Hole on June 20. During the next several months KNORR will undertake a series of short one to three week cruises.

LULU followed KNORR up to the Boston Shipyard where she is undergoing repair and maintenance prior to her departure to the Navy's west coast base (she should be leaving Woods Hole sometime in July).

OCEANUS left Woods Hole on June 13 on Voyage #155, during which time she will cruise in the North Atlantic. The purpose

of the cruise is to make water column measurements of the carbon dioxide content of sea water and to relate the measurements to observations of meteorological and biological properties. OCEANUS is due back on July 2.

ATLANTIS II and ALVIN completed a short 9 day leg from Acapulco to Manzanillo, Mexico, during which time studies of hydrothermal vents on the East Pacific Rise were undertaken. Measurements of plume temperature, composition and particle density were made so as to determine the chemical and physical processes within plumes and to determine the total heat loss from a vent field. ALVIN and A-II left Manzanillo on May 29 on Leg VIII of extended Voyage #112. The purpose of this leg is to characterize the geologic evolution of two well-studied volcanoes on the East Pacific Rise. They are due to arrive in San Diego on June 23.



KNORR received a rousing welcome on her return to Woods Hole after 10-months at sea. Photo by Anne Rabushka.