



NEWSLETTER

December 1982

WOODS HOLE OCEANOGRAPHIC INSTITUTION



FROSCH TO GIVE JOHNSON LECTURE JANUARY 3

Robert A. Frosch, vice president of General Motors Research Laboratories, will present the 15th J. Seward Johnson Marine Policy Lecture entitled "Relevance, Irrelevance, and General Confusion: Problems in Science Policy" on January 3, 1983, at 3:30 p.m. in Redfield Auditorium.

Dr. Frosch was associate director for applied oceanography at WHOI from 1975 to 1977, when he was named administrator of the National Aeronautics and Space Administration (NASA). He served at NASA until January 1981, when he was appointed president of the American Association of Engineering Societies, Inc. In March 1982, he was appointed to his present position at General Motors, where he heads a science team engaged in applied research and development and long-range research and specialized service work for other GM units.

DO NOT FORGET TO GET YOUR TICKETS TO THE WHOI CHRISTMAS PARTY

The deadline for purchasing tickets for the WHOI Christmas party is Tuesday, December 14. Tickets are \$5.00 each for a WHOI employee and one guest; \$6.50 each for extra guests. They may be purchased from Jeanne Fuller on Clark 2; Donna Garcia in Personnel, Blake; Linda Ferreira at the Smith reception desk; Nancy Hazelton in Challenger; and Gretchen McManamin on Bigelow 3.

The Christmas party is Saturday, December 18, from 8 p.m. to 1 a.m. at the Sheraton, Falmouth. Hot and cold hors d'oeuvres will be served from 8 to 10 p.m. and music will be provided by the Jim Miller Project and the Sheraton band. Hope to see you there!

30-YEAR SERVICE AWARDS TO BE PRESENTED, 1982 RETIREES TO BE HONORED DECEMBER 17

All employees, family members and friends are invited to attend the presentation of thirty-year service awards to Dick Backus, Al Bradshaw, Paul Howland and Gordon Volkman Friday, December 17, at 3:30 p.m. in Clark 507. Those who have retired in 1982 will also be honored.

BOB BALLARD RECEIVES CUTTY SARK AWARD

Associate Scientist Bob Ballard of the Ocean Engineering Department received the Cutty Sark Science Award in November for his work in discovering and exploring deep-sea vents. The award is presented in conjunction with Science Digest.

HAPPY HOLIDAYS!!!



SHIP SCHEDULING MEETING PLANNED JANUARY 4

Ship scheduling for 1984, including proposed ship related programs and major operating areas and cruises for the year, will be discussed at a meeting Tuesday, January 4, at 2 p.m. in Redfield Auditorium.

Lamont-Doherty Geological Observatory, the University of Rhode Island, and WHOI work closely together through the medium of the Northeast Consortium Research Fleet (NECOR). The research vessels CONRAD, ENDEAVOR, KNORR and OCEANUS will be scheduled jointly by a NECOR scheduling committee comprising representatives from each lab. ATLANTIS II will be scheduled primarily through the ALVIN Review Committee, although it is anticipated that some NECOR time may be available.

The NECOR scheduling committee will attend similar meetings at Lamont December 20 and at URI January 17.

Principal investigators from any labs proposing ship usage on NECOR vessels are invited to attend and participate in the discussions. Draft schedules will be prepared after the last meeting for submission to NECOR and to UNOLS. **REMEMBER:** Ship request forms must be submitted to any of the NECOR labs or to the UNOLS Office prior to December 10.

PETER WIEBE NAMED TO HEAD CAMS

Director John Steele announced the appointment November 30 of Associate Scientist Peter Wiebe of the Biology Department as Director of the Center for the Analysis of Marine Systems (CAMS). Peter, who has been serving on the CAMS Planning Committee since its inception, succeeded Peter Rhines on December 1, 1982.

In making the announcement, Dr. Steele said: "I am grateful to Peter Rhines, the Center's first director, for his role in starting CAMS. Its successful beginning is largely attributable to his personal efforts and leadership. He will remain closely involved with CAMS through his research as a Senior Scientist in the Department of Physical Oceanography."

December 24, Christmas Eve, and New Year's Eve, December 31, are Institution holidays.

DON'T FORGET WHOI FOR GIFT IDEAS!

If you need some gift ideas for Christmas, don't overlook the Smith stock room, where there are a number of WHOI items for sale. The 1983 Institution calendar is available for \$1.75 (including tax). The calendar features pictures of work at sea on WHOI ships. Supplies are limited so get your copies early.

Also available and a great gift idea is the color poster of the jellyfish Geryonia proboscidalis (photo by Larry Madin) visible in the window of the Co-op Building, across the street from the Smith Lab. The poster costs \$3.00 (mailing tube is \$0.50) and can be purchased in the Information Office, Co-op.

WHOI SAFETY: LIQUOR AND LITTLE ONES

As the holiday season gets into full swing with cocktail parties and celebration, the Massachusetts Safety Council offers some suggestions to make the holidays a happy time for everyone. In its publication lifeguard, the Council reminds us to remember young children, who are attracted to brightly colored, fruit-flavored drinks.

Ingesting as little as three ounces of hard liquor can be fatal to a child weighing 25 pounds. Excessive consumption of alcohol can also lower blood sugar to a level that deprives the body's major organs of this essential nutrient.

Protect your children and those of friends who may visit by taking some simple precautions. Don't leave bottles or punch bowls unattended. Liquor should be stored in a locked cabinet or out of a child's reach. Never give children alcohol to taste for amusement. After a party, empty unfinished cocktails, wine glasses, and beer bottles, even if you plan to leave clean-up for the next day. Never give children alcohol to quiet them or make them sleep. And keep preparations containing alcohol (colognes, mouthwash, cough remedies, etc.) out of a child's reach.

NEWSLETTER NOTICES - Please send notices, photos or photo suggestions, and other items of interest to the oceanographic community to Shelley Lauzon, editor, Co-op, ext. 2271.

SHELLFISH HATCHERY OPERATORS TESTING MANN/GALLAGER LIPID-STAINING TECHNIQUE

Shellfish hatchery operators in New England and New York and others involved in the bivalve hatchery field attended a workshop October 29 at the Institution to learn the Mann/Gallager lipid-staining method of assessing bivalve health.

The method was developed by Associate Scientist Roger Mann and Research Associate Scott Gallager of the Biology Department with Sea Grant funds. It can be used as an index of survival through metamorphosis of shellfish larvae, the period of typically high mortality and thus a crucial time in a hatchery operation.

Traditional methods provide no scientific basis for determining the likely survival of larvae other than actually attempting to grow the larvae, a time-consuming operation. The lipid content of bivalve larvae, however, is a reflection of the suitability of environmental growth conditions - it increases under favorable growth conditions and decreases rapidly under stressful conditions. Hatchery operators trained at the session, which also focused on new developments and problems in hatchery operations, are introducing the Mann/Gallager staining technique into their hatcheries for further testing and evaluation.

MIT SWITCHBOARD SERVICE TO BE CUT IN 1983

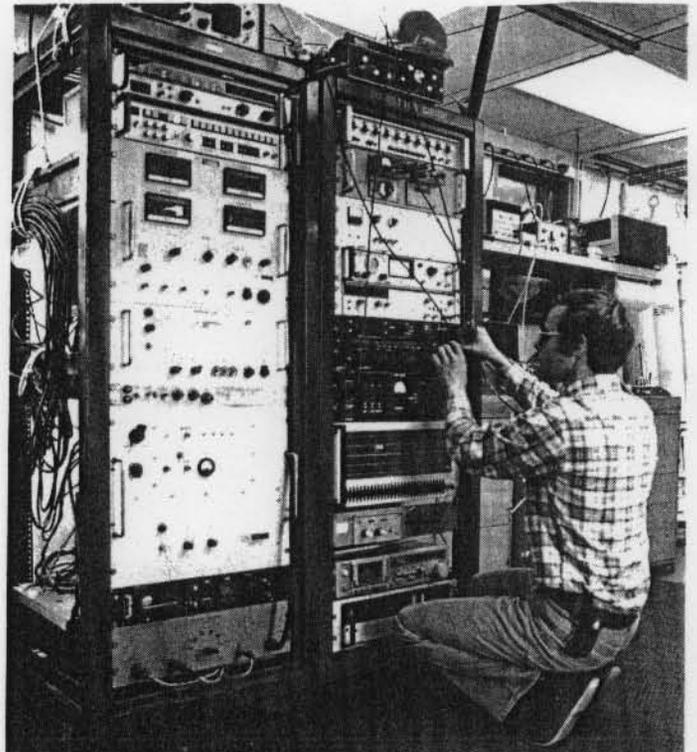
In an effort to reduce administrative costs, MIT will curtail its switchboard service at the main number (253-1000) beginning January 1, 1983.

The switchboard is now open from 7:15 a.m. to 12:15 a.m. Monday through Friday and weekends and most holidays from 7:15 a.m. to 9:15 p.m. The new hours will be 7:15 a.m. to 9:15 p.m. Monday through Friday, closed weekends and most holidays. The holidays it will be open are Martin Luther King Day, Patriot's Day, and Columbus Day.

Callers in the off-hours will hear a recording telling them of the switchboard hours and referring them to the extensive MIT listing in the Boston telephone directory. In case of emergency, the Campus police number (253-1212) and Medical Services number (253-1311) are also given.

EDUCATIONAL COUNCIL MEMBERS ELECTED AT EDUCATIONAL ASSEMBLY

Bill Grant, Mike Purdy and Diane Stoecker were elected at-large members of the Educational Council at the Educational Assembly November 8 in Clark 507. Departmental representatives appointed to the Educational Council are Mike Bacon (Chemistry), George Frisk (O. E.), Nancy Marcus (Biology), Joe Pedlosky (P. O.), and Brian Tucholke (G & G).



Steve Liberatore of the Ocean Engineering Department works on a computer during a recent O.E. cruise. Photo by Bob Spindel.

A GOLD CHAIN FOR A DRIFT BOTTLE TAG???

Grace Witzell in the Archives received a letter from Eleuthera, Bahamas, noting that a drift bottle tag had been found in that island's Rock Sound. The letter read in part: "I have been wanting a gold chain. I will be thrilled, happy, if the company could give me one for a reward. If not, I will still be happy for the little reward offered."

The Institution's reward for the tags is \$0.50. A few are turned in each year although the drift bottle program ended long ago.

**OCEANUS MAGAZINE CELEBRATES
30TH ANNIVERSARY THIS MONTH**

Former Reproduction Supervisor John Stimpson reminded us recently that the Institution's quarterly magazine, Oceanus, celebrates its 30th anniversary December 16. John has donated the first copy off the press of the first issue to the Institution Archives.

That first issue in winter 1952 featured a photo of ATLANTIS at anchor at sea, taken by ATLANTIS First Mate Don Fay. The magazine's 16 pages plus cover included an article on physical oceanography at the Institution, another on the discovery of fishing grounds from offshore New York to Nova Scotia, gifts and grants, ship locations, a feature on ATLANTIS Master Adrian Lane, a welcoming letter to the Associates and their first president, Gerard Swope, Jr., and an editorial. Under "Currents and Tides," it noted that Institution Trustee Selman Waksman, a staff member from 1931 to 1946, had recently won the Nobel Prize for his work with streptomycin.

In that first editorial was a statement of the goal the magazine still tries to follow today. It read in part: "Due to the ever increasing interest in oceanographic research it has been considered advisable to make a modest start with a publication to acquaint the many friends of the Woods Hole Oceanographic Institution with the research in progress. By the very scope of oceanography, covering as it does many fields of science, it will be impossible to report on all phases of the study of the seas. However, it is our hope that a collection of the issues of 'Oceanus' eventually may form a worthwhile reference to modern oceanographic exploration." It also noted that the magazine would "attempt to be neither too technical nor too popular."

That first issue (and many more to come) of Oceanus was designed and printed at the Institution. It was published semi-annually for the Associates, a group just formed "to furnish increased encouragement and support to the future growth of the scientific exploration of the sea." That small group has grown to more than 1,200 today, and the magazines's circulation to some 15,000 copies. Of that total, 13,000 are paid subscriptions, with 1,200 sent to Associates and another 500 or

so distributed to WHOI employees. Davis Press in Worcester now prints the magazine.

Oceanus describes itself in 1982 as "an international magazine that monitors significant trends in ocean research, technology, and marine policy." Its purpose is "to encourage wise, environmentally responsible use of the oceans," and "to explain the significance of present marine research to readers and to expose them to the substance of vital public policy."

The magazine has had but three editors in its 30-year history. Jan Hahn served from 1952 to his death in 1972. Bill MacLeish took the helm with the spring 1973 issue and remained through 1981. The present editor, Paul Ryan, took over Jan. 1, 1982. Other staff members are Assistant Editor Ben McKelway, Editorial Assistant Elizabeth Miller, and Staff Assistant Lexes Coates, who is responsible for advertising.

Paul reflected a bit about the past 30 years in a recent interview. "The evolution the magazine is undergoing at the present time is a result in part of a critique from Associates, whose response remains a vital part of the magazine," he said. "In a sense we've come full cycle. We're adopting some of the original thoughts and ideas of Jan Hahn. With the fall issue we started a profile of a leading oceanographer and a Concerns section which allows us to assume more of an advocacy role."

Book reviews and letters to the editor now appear in Oceanus, and an upcoming issue will feature an article on women in oceanography. "We are trying to tackle subjects people have varying views on and at the same time retain a scientific core of material," Ryan added. "We're trying to make the magazine appeal to a broader spectrum of people. It is a multi-faceted publication, but we want to guard against being too broad. It is still our aim to be neither too technical nor too popular."

Changes were evident in the Fall 1982 issue, which also saw subscriptions increase from \$15 to \$20 per year (from \$10 to \$15 for students). The winter 1983 issue will bring still more changes. For the first time, advertising will appear in Oceanus. The formal opening of the magazine's pages to advertising, however, will occur in the spring issue. The advertising goal for 1983 is 16 pages per issue. The magazine has been 64 pages in

length (all editorial) but could go to 80 pages with the addition of advertising. The advertising prices range from \$1,200 for one full page to \$150 for one-eighth page.

"Advertising will give additional information to our readers," Ryan explained. "We hope to get advertising from three principal areas: marine book publishers, marine educational programs, and marine equipment companies. If the advertising is successful, it will reduce our deficit and allow us to consider color instead of the present black/white format and to think about becoming more of a conventional magazine (larger size), perhaps appearing six times a year instead of four."

BIOLOGIST NAMED ASSISTANT SCIENTIST

Patricia Glibert, a postdoctoral scholar for the past year in the Biology Department, has been named an assistant scientist.

Pat received her B.A. degree from Skidmore College, M.S. degree from the University of New Hampshire, and Ph.D. degree from Harvard University. Her research interests include nitrogen nutrition of phytoplankton and cold water photosynthesis of phytoplankton.

IN MEMORIAM

The Institution announces with sorrow the death October 8 of Percy Chubb, 2nd, at age 73. Mr. Chubb became an associate in 1954 and in 1980 was elected an Honorary Member of the Corporation.

He was president and a trustee of the Victoria Foundation, which supported research at WHOI from 1973 to 1976 on Cape Cod marshlands and on Hackensack, New Jersey, meadowlands. In 1979 he gave the Institution his 48-foot sail assisted power vessel, BIRD OF PASSAGE. The boat was built by Mr. Chubb in 1974 to cross the world's oceans and to sail in the Arctic, and was used by WHOI for research on marine mammals, biological acoustics and sonar tagging of sharks. BIRD OF PASSAGE was sold in 1981 and the proceeds applied to construction of the Coastal Research Center.

MERRY CHRISTMAS!!!

NEW FACES

December 1982



Steven E. Bellerose
Research Assistant
O.E./M. Jones, J. Doutt
Big. 208/x2288



Kendall B. Bohr
Buyer
Purch./A. Henderson
GEOSECS/x2374



Ingrid E. DeSilvestre
Research Assistant
MPOM/D. Ross
Crowell/x2324



Gayle M. Judd
Secretary
Admin./B. Newell
Clark 206A/x2521

HOUSING NEEDED FOR SUMMER 1983 STUDENT

Charlie Innis, executive assistant to the Director, recently received a letter from a Ms. T. Alberton of Nice, France, who spent the summer of 1964 in Woods Hole with a British family whose father worked at WHOI.

Ms. Alberton would like to arrange a similar experience for her thirteen-year-old daughter, Karina. Karina speaks English (she lived in London for two years) and would like to spend the summer of 1983 as a paying guest with an Institution family.

If you are interested, contact Charlie Innis, ext. 2279.

OCEANOGRAPHIC SHIP NOTES

ALVIN and LULU departed Frederiksted, St. Croix, December 1 for dives in the Puerto Rico area. They were scheduled to depart Yabucoa, Puerto Rico, December 5 to return to Woods Hole December 18. This will be LULU's last trip for WHOI. ALVIN will undergo its annual overhaul in January, during which it be converted for use on ATLANTIS II. LULU will remain in Woods Hole through the summer of 1983 until the new system is operational.

ATLANTIS II remains at the pier in Woods Hole undergoing maintenance and conversion for ALVIN operations.

KNORR departed San Juan, Puerto Rico, December 1 on Leg III of Voyage #99. Scientific work on the cruise involves the circulation and mixing processes in the tropical and equatorial Atlantic as part of the Tropical Atlantic Study. Simultaneous measurements will be made of radioisotopic trace elements, carbon dioxide, alkalinity and hydrographic properties.

The Tropical Atlantic Study will extend measurements made during the 1981 Transient Tracers in the Ocean Study and the German Meteor Expeditions into the southern half of the North Atlantic subtropical gyre and equatorial regions. Geochemical measurements will also be made during the cruise in the fresh-water plume of the Amazon River to investigate the changes in chemistry that occur as the river water mixes with ocean water. KNORR is due at Belem, Brazil, December 21, where she will remain for Christmas. The ship will depart Belem December 29 to continue work for the Tropical Atlantic Study and is scheduled to arrive in Dakar, Senegal, January 25.

OCEANUS departed Woods Hole December 3 on Voyage #132 for ocean engineering studies. A mooring array and associated transponders set during an October cruise will be recovered, and a short-term mooring deployed and recovered. Oceanus is due back in Woods Hole December 13 and will remain in port for the holidays and through mid-January for maintenance.

Please note: The telephone area code for San Diego County, California, changed November 6 from 714 to 619.

MICROGRAPHICS LAB OFFERS SPECIAL SERVICES

The Micrographics Lab (also called Microreproduction) in the basement of the McLean Lab on the Quissett Campus offers a number of little-known services to Institution scientists and colleagues at USGS and elsewhere. Photographic Supervisor John Porteous and Photographer Liz Eye staff the two-year-old facility, which John had previously operated at DESC (now the Crawford Lab and occupied by USGS).

A major portion of the Lab's work is processing and printing long rolls of film, from five feet to 400 feet in length. Approximately one-half of this work is color; the lab, for example, processes all the ANGUS and ALVIN film footage.

Another service is custom color printing utilizing the Cibachrome process, the only color process that is archival. The lab also duplicates films and slides and makes microfiche. Charts and maps can be put on microfilm as well. According to John, the cost of duplicating 100 or 400 foot-rolls of 35mm color film at the facility is about one-half the cost to do it elsewhere.

The Micrographics Lab also does flow camera work. Continuous seismic profiles (CSP) in long rolls, typically 50 to 100 feet and longer, can be filmed and printed. The CSP is put through the flow camera to make a negative, then put through the system again to make a print, leaving the original intact. The print is normally one-half the size of the original for ease in handling. USGS has been a principal user of this camera, one of the few on the East Coast. The camera has many other possible uses as well, including reproduction of engineering drawings.

John and Liz are sometimes called upon to assist in the preliminary design of camera systems. At the moment, they are assisting in the designs of seagoing darkrooms on ATLANTIS II and the GLOMAR EXPLORER, and are working with Engineer Cliff Winget on the design of an underwater camera system.

A unique aspect of the Micrographics Lab is its ability to provide estimates. "We were set up as an experimental cost center," John explains. "We try our best to accurately estimate a job and bill it in actual dollars and cents. We would like to see more use of our services and make the operation a valuable as well as an efficient one."



Photos by Shelley Lauzon

HALLOWEEN TGIF AT FENNO HOUSE

Lots of strange and creative costumes surfaced at the Halloween TGIF party October 29 at Fenno House. Unfortunately, not all the photos could be used, but you can tell from those here that the party was a night to remember!

DIVING COURSE TO BE OFFERED IN FEBRUARY

Scuba diving classes leading to WHOI diving certification will begin in February. If you are interested, be sure to complete the prerequisites before the course begins.

Enrollment is limited to those individuals who need to learn or refresh their scuba skills to participate in Institution-sponsored research or work, and project support is necessary. Other prerequisites are CPR and first aid certification; you can sign up for classes through the Safety Office, Blake, ext. 2242.

Classes are held during normal working hours, usually three afternoons per week. Course length is approximately 45 hours with five open water dives. Certification through the National Association of Underwater Instructors is available.

For further information, contact Diving Supervisor Terry Rioux, ext. 2239.

PHYSICIST NOMINATED TO HEAD NSF

Edward Knapp was nominated by President Reagan November 2 to serve as director of the National Science Foundation (NSF). If confirmed by the Senate, Knapp will replace John Slaughter, who resigned to become chancellor of the University of Maryland at College Park.

Knapp, a physicist, had been assistant director of the agency's division of mathematics and physical sciences since September 1982. Prior to his appointment at NSF, he had been affiliated since 1958 with the Los Alamos National Laboratory in New Mexico, where he directed accelerator technology.

TELEPHONE TIPS FOR WHOI CALLERS

Please remind outside callers dialing WHOI that they must dial the main switchboard number, 548-1400, to reach anyone at the Institution. Some employees have given out extension numbers without telling individuals they must dial the central number first and then ask for the extension number. As a result, outside callers are dialing 548 and the extension number, reaching local residents instead of the Institution.

PERSONNEL OFFICE NOW LOCATED AT BLAKE

If you need to go to the Personnel Office, don't go to Bigelow. The office moved to the Blake Building, into remodeled space once occupied by Purchasing, the week of Thanksgiving. Safety Officer Eric Spencer and Affirmative Action Administrator Carolyn Miller are also now located in Blake.

EMPLOYEE HANDBOOK AVAILABLE FROM PERSONNEL

The new Employee Handbook is now available. If you would like a copy, contact the Personnel Office, Blake.

FORMER EMPLOYEE WINS SHOPPING SPREE

Karen Pires, who worked for Doug Webb for seven years, won a shopping spree at Angelo's. The event, complete with television coverage, was held November 16.

CORRECTION - It was reported in the November Newsletter that Senior Scientist John Hunt of the Chemistry Department was the second American to receive the Treibs Medal from the Geochemical Society. John was the first American (and first from North or South America) to receive the medal.

USE NEW TELEX NUMBER, NOT OLD TWX NUMBER

The Institution switched last year from the TWX system to a Telex machine. The new Telex number is 951679 and the answer back remains OCEANINST WOOH.

Some old Institution letterheads contain the old TWX number, which now is assigned to an East Falmouth industrial supply firm. The switchboard has been notified that messages have been sent to that firm instead of the Institution because employees using old stationery have not crossed the old TWX number out and inserted the new Telex number. A number of important messages have been lost from France and other nations as a result.

If you still use old letterheads, be sure to cross off the old TXW number and insert the new Telex number to avoid serious problems.

