



# NEWSLETTER

February 1981

WOODS HOLE OCEANOGRAPHIC INSTITUTION



Empty wire spools near the Iselin Mall, January 1981. Photo by Vicky Cullen.

## PAYROLL OFFICE MOVED FROM CHALLENGER

If you need to visit the Payroll Office and haven't been in a while, don't go to Challenger. Jan Battee and crew moved next-door to the first floor of the gray shingled building to the west of Challenger in late November. The office entrance is on the east side of the building facing Challenger.

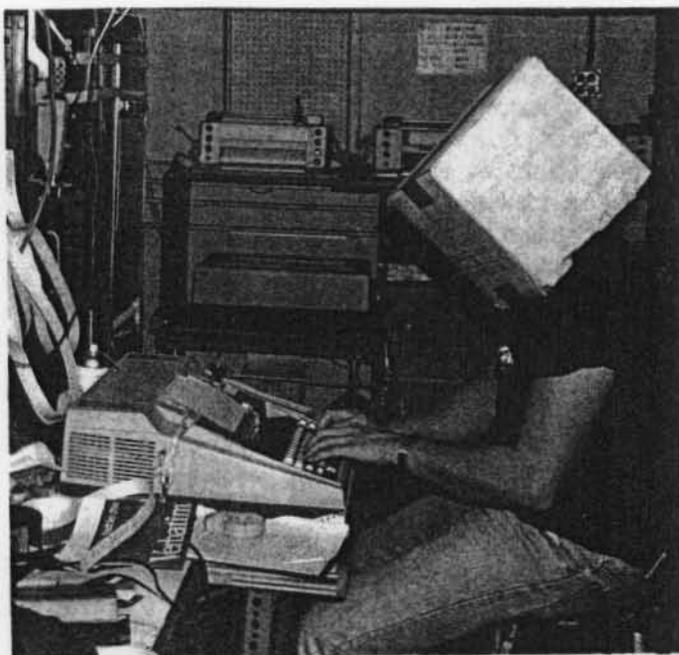
The "Unknown Keyboarder," left, made an appearance during Leg X of ATLANTIS II Voyage #107 last fall and Caki Herrity caught him in the act. WHO is it??? Informed sources were reluctant to say, but the Newsletter learned it was Richard Tench, formerly a research assistant in Ocean Engineering.

## COASTAL RESEARCH CENTER EVOLVES; THREE MAJOR PROJECTS UNDERWAY

The Institution's Coastal Research Center (CRC) has been active as a formal organization since its establishment one year ago. CRC Director John Ryther is advised by a Planning Committee, chaired by John Farrington, comprised of representatives from each of the scientific departments, the Marine Policy program, and the Sea Grant office. In addition to Farrington (Chemistry), members of the Planning Committee are: Dave Aubrey (Geology & Geophysics), Bob Beardsley (Physical Oceanography), Judy Capuzzo (Biology), Bill Grant (Ocean Engineering), Susan Peterson (Marine Policy), and Dave Ross (Sea Grant).

Initial support for the Coastal Research Center is being provided by a \$750,000 grant from The Andrew W. Mellon Foundation. Of this amount, \$500,000 is to be spent over a five-year period (\$100,000 per year) in support of scientific and technical staff involved in Center activities. The remaining \$250,000 is being held in a flexible fund

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for response to coastal research opportunities as they emerge. A \$120,000 grant, appropriated at \$40,000 per year for three years, from the Charles E. Culpeper Foundation has provided additional salary support for members of the Planning Committee.

One of the Planning Committee's first priorities was to focus on one or more projects that represented important areas of concern in coastal research, as identified by WHOI staff. A series of seminars took place in 1978 and 1979 at which staff members interested in coastal research presented their research activities and future plans and needs. The committee reviewed these activities and selected three projects which seemed to have broad support and interest among the staff: (1) a scientific study of Georges Bank, (2) the assimilative capacity of the coastal zone for waste disposal, and (3) advanced instrumentation for coastal research.

GEORGES BANK - A study committee headed by Dick Backus and Bob Beardsley has been formed to identify and carry out tasks viewed as important to a scientific study of Georges Bank. Study Committee members are: John Farrington and John Ryther (WHOI); Brad Butman (USGS); Bob Howarth (MBL); Marv Grosslein and Mike Sissenwine (NMFS); Judy Spiller (UNH); and John Walsh and Terry Whitlege (Brookhaven National Lab).

The group's first task is a review of existing knowledge of Georges Bank, to be published in a book tentatively titled "Georges Bank And Its Surroundings: Text Plus Atlas." The purpose of this atlas is to synthesize current knowledge on the area and coordinate information which will contribute to an overall understanding of Georges Bank as a system. Dick Backus is editor of the book and editorial board members are Brad Butman, Marv Grosslein and John Walsh.

ASSIMILATIVE CAPACITY - The problems associated with a rapid technological fix for solid and liquid waste disposal, coupled with growing problems with waste disposal on land, have focused attention once again on the use of the ocean for waste disposal. Debates among marine and environmental scientists and engineers have been rekindled. How much? Where? For how long? What is the trade-off in terms of renewable natural resources?

Many questions about the fate and effects of waste chemicals and solids in the marine environment evolve around the role of particulate matter in biological and geochemical cycles and the influence of physical processes on particulate matter movement. There is strong research interest among WHOI staff and students in all departments for a coordinated investigation of this topic. An informal discussion group led by Gabe Csanady, Bill Grant and Judy Capuzzo has been convened to discuss the overall problem of the role of particulate matter in the assimilative capacity of the continental shelf and slope areas. A smaller group of investigators, led by John Farrington and Judy Capuzzo and funded by the WHOI Sea Grant program with supplemental funds from the CRC, is coordinating its research on this topic with a focus on Buzzards Bay.

INSTRUMENTATION - Dick Nowak is heading a group which has been formed to consider instrumentation needs for coastal work at the Institution. Other WHOI staff members involved in the Instrumentation Group are: Dave Aubrey, Bob Beardsley, Bill Grant, Yogi Agrawal, Dick Koehler, Don Anderson, John Burke and Keith Von der Heydt. The goal of this group is, according to Dick, "to increase the transfer of technology among people in oceanography, both builders and users." Funds allocated for this project are not intended for the purchase of large new pieces of equipment or off-the-shelf items. Rather, funds will be used primarily for support of scientific and technical staff involved in developing new items or modifying existing items, ASTERIAS time for instrument testing, and some travel and supplies relating to instrument development.

In addition to these three projects, the Coastal Research Center has been able to use its funds to encourage activity in the field of coastal research. Funding has been provided for a WHOI research proposal, several student research projects, full or partial support of Guest and Visiting Investigators, partial support of a new assistant scientist in Physical Oceanography, full support of two post-doctoral fellows, and for miscellaneous travel and cruise support on a variety of projects. Decisions on funding are made by the Planning Committee based on the relevance of the request to one of the identified CRC projects. Funding announcements will appear in the Newsletter.

A portion of the \$250,000 flexible fund from The Andrew W. Mellon Foundation grant has been set aside for a Rapid Response Program to provide immediate funding for response to episodic coastal events with important scientific consequences. Suggestions are being solicited now in order to identify a suitable event and begin planning an effective program. Possibilities include massive red tide outbreaks, anoxic events, and coastal storms. One or more of these episodic events will be selected as candidates for the funds after discussion among staff and students. When such an event occurs, the funds should be immediately available for the rapid response effort.

Recommendations for expenditure of CRC funds are submitted to Derek Spencer, associate director for research, for approval. He in turn seeks advice from a Centers Steering Committee comprised of John Ryther, director of the Coastal Research Center; Peter Rhines, director of the Center for Analysis of Marine Systems; and Dave Ross, director of the Marine Policy and Ocean Management program.

Memos have been circulated during the past year informing the staff about CRC activities and soliciting input. Inquiries about Center activities or the availability of support should be addressed to your appropriate department representative on the Planning Committee, John Ryther, or John Farlington.

## FUNDING ANNOUNCEMENTS

The Institution has received funding support for work under the direction of the following scientists.

### From the National Science Foundation:

- to Ken Peal for "Shipboard Technician Support," \$240,722;
- to Terry Joyce for "Physical Studies of Warm Core Gulf Stream Rings," \$226,189;
- to Frank Carey for "Activity Patterns of Pelagic Fish," \$59,647;
- to Mike Purdy for "Collaborative Research: A Micro-Earthquake Survey on the Mid-Atlantic Ridge," \$37,900;
- to John Dacey and John Teal for "Gas Transport in Spartina Alterniflora: Mechanisms and Influences on Primary Production," \$73,000;
- to Art Maxwell and Jack Donnelly for "Operations Support for Deep Submergence Research Vehicle (DSRV) ALVIN Program," \$941,600;
- to Bob Dinsmore for "Permanent Shipboard Scientific Installations," \$90,893;
- to Geoff Thompson for "Petrological and Geochemical Studies of the Mid-Atlantic Ridge South Atlantic, Part 2," \$98,107;
- to Bob Dinsmore for "Ship Operations Support," \$2,324,678;
- to Ollie Zafiriou for "Chemical Effects of Light in the Sea," \$10,773;

### From the Office of Naval Research:

- to Ken Prada for "FRAM-II Acoustics Signal Processing and Analysis and Remote Acoustic Sensor Development," \$567,942.

### From the National Aeronautics and Space Administration:

- to Terry Joyce for "Acoustic Profiling of Upper Ocean Currents," \$23,623.

### From the Department of Energy:

- to John Hunt for "Organic Geochemistry of Continental Margin Sediments," \$138,561.

### From the Naval Underwater Systems Center:

- to Jess Stanbrough for "MK 118 DWS/CS Engineering Support and Services," \$95,000.



Paul Boutin (right) presented a signed photo of WHOI's Helio-Courier seaplane to its former pilot, Mechanical Shop Supervisor Bobby Weeks, during lunch on Bobby's thirty-year employment anniversary January 22. Frank Medeiros took the photo August 24, 1966, in Great Harbor. This photo by Shelley Lauzon.



Left to right: Bill Horn, Jack Reese, Jim Valdes, Joe Poirier and Nick Fofonoff.



Bartenders Scott Worrilow and Russ Graham



Julie Andrade, Donna Garcia and Homer Delisle

HAPPY NEW YEAR!!!

The Physical Oceanography Department's Buoy Group held its annual New Year's party December 30, and as usual it was a great success. Photos by Shelley Lauzon.

#### OCEANOGRAPHIC SHIP NOTES

ALVIN and LULU arrived in Woods Hole February 16 for a three-month overhaul, during which LULU will be drydocked and a variety of repairs made.

ATLANTIS II departed Woods Hole February 12 on Leg I of Voyage #108. The cruise for MIT involves examination of the proposed crustal thermal anomaly associated with the Bermuda Rise. The vessel is due at Panama February 27. The next cruise for the Geology and Geophysics Department will be a Panama to Panama voyage.

KNORR remains at the pier undergoing repairs and is scheduled to depart February 23 on Voyage #87 for the Physical Oceanography Department. Scientific activities include CTD and XBT stations, and hydrographic observations will be made in the LOTUS area in the Sargasso Sea.

OCEANUS departed Miami February 11 on Leg II of Voyage #92 for the Ocean Engineering Department. Work continues on the acoustic tomography project. A port call will be made at Miami February 23.

#### CHILDREN'S SCHOOL PREPARES FOR 68TH SEASON

The Children's School of Science is preparing for the opening of its sixty-eighth year in Woods Hole. It is a cooperative school offering children, ages 7 - 16, the opportunity to combine classroom work with frequent field trips to local fields, marshes and beaches. Classes will run for six weeks between July 2 and August 12.

Brochures containing course descriptions and application forms will be mailed out on April 1. Anyone interested in receiving this information should write to the registrar before that date: Katherine DeMay, 1 Snapper Lane, Falmouth, MA 02540.

ANNUAL REPORT COVER PHOTOS WANTED - If you have any good color slides or photos for use on the WHOI Annual Report cover, contact Vicky Cullen, Co-op, ext. 2270.

## WHOI SAFETY: RESPIRATORS

In his February column, Safety Officer Eric Spencer discusses the proper selection and use of respirators.

Many persons have requested a respirator, believing that a single unit will provide adequate protection from multiple contaminants. There are many types available, however, and they have some severe limitations. They are effective only for very low concentrations of contaminants, and when there is a potential shortage of oxygen, only an air-supplied or self-contained air tank may be used.

The most common types of respirators are the simple dust filter for nuisance dusts and the chemical cartridge type, selected for a particular contaminant or group of contaminants.

The protective value of a respirator is only as good as its fit. Facial hair may make it impossible to obtain the tight seal required for effective protection. We now have three sizes available which should enable most people to find one that fits.

Respirators should be washed in warm soapy water after each day's use and stored in a clean container. If they are simply hung on a hook in a lab or shop, there is a good chance that the inside of the face piece will become contaminated, and the next person to use that respirator will breathe that material. The cartridges are not washable and must be removed before cleaning the face piece.

There are no established indicators for cartridge life at this time. The rule of thumb for cartridge life is eight hours of wearing time, or until you can smell the contaminant, whichever comes first.

An assortment of chemical cartridge and dust respirators is available in the Safety Office, Bigelow 110, ext. 2242.

## WHOI SAFETY GUIDE AVAILABLE

A new Safety Guide covering topics from accident reports to waste disposal has been published. Although the initial distribution was limited, all labs and shops will eventually have copies. If you need the guide and it isn't available in your work area, please contact the Safety Office.

## RED CROSS COLLECTS 51 PINTS AT BLOODMOBILE

Priscilla Mulholland of the Cape Cod Chapter, American Red Cross, extends her thanks to everyone who donated and assisted in the bloodmobile at Clark January 26.

## ROSS WINS SKATING MEDALS

Congratulations to Dave Ross, who won four silver medals in speed skating in the 40-45 category at the Senior Olympics February 7-8 in Lake Placid, New York. Dave placed second in the 500, 1,000, 1,500 and 3,000 meter races on the Olympic skating oval.

Dave also competed January 10-11 in the Eastern States Championships in Saratoga Springs, New York. He skated in the masters category (over 40) and placed sixth in the 1,000 and fifth in the 3,000 meter races.

## WIVES' COFFEE HOUR PLANNED MARCH 3

The next coffee hour for wives of Institution employees will be held March 3 from 10-11:30 a.m. at Fenno House. Children are welcome. For further information, contact Catriona Purdy, 540-2769.

## RETURN OF OARS REQUESTED

Would the person who borrowed a pair of oars from the Iselin balcony fronting the Port Office please return them or contact Betty Bunce, ext. 2221. The oars are 7 feet, 6 inches long with a yellow painted loom and a green blade.

## DO YOU HAVE THE FOLLOWING...?

If you find any of the following pieces of equipment hiding in your lab, please notify Nat Corwin, Clark 418, ext. 2498. Nat needs the information for his records.

<u>BRAND</u>	<u>ITEM</u>	<u>NUMBER</u>	<u>OWNER</u>
AMO	Stereo Microscope	70-825	Education
Leitz	Compound "	72-837	"
B & L	Stereo "	73-483	OIP
Wild	Stereo "	72-313	"
Polaroid	Camera	72-435	Education
Leitz	"	72-833	"
Spencer	Stereo Micro.	77-234	J. Ryther
Zeiss	" "	63-443	"
AMO	" "	76-713	N. Corwin
B & L	" "	76-398	"
B & L	Binoc "	76-703	"
Spencer	Comp. "	TF-67	"
B & L	" "	62-108	"
B & L	Binoc "	74-635	"
B & L	Binoc "	74-33	"

## PROMOTIONS AND OTHER PERSONNEL CHANGES

### Recent promotions include:

Mary-Jane Blaquiére - O.E. - from Secretary I to Staff Assistant, Information Processing Center.

Karin A. Bohr - P.O. - from Secretary III to Secretary IV.

Robert S. Brown - ALVIN/LULU Ops. - from Research Assistant III to DSRV Pilot.

Christine C. Burton - Chemistry - from Laboratory Assistant I to Laboratory Assistant II.

Bruce R. Cole - O.E. - from Research Assistant III to Senior Research Assistant.

Wayne H. Dickinson - Chemistry - from Research Assistant II to Research Assistant III.

Donna M. Garcia - Personnel - from Secretary II to Staff Assistant-Personnel Representative.

David H. Gever - G & G - from Research Assistant II to Research Assistant III.

David L. Hayden - Marine - from Junior Engineer, R/V OCEANUS, to Third Assistant Engineer, R/V KNORR.

Colleen Hurter - Library - from Library Technician III to Library Assistant.

Valerie A. Jonas - Purchasing - from Secretary I to Staff Assistant-Purchasing.

Bruce A. Lancaster - Biology - from Research Assistant II to Research Assistant III.

Cynthia H. Lanyon-Duncan - P.O. - from Research Assistant II to Research Assistant III.

Steven J. Manganini - G & G - from Research Assistant II to Research Assistant III.

Ann Martin - MP & OM - from Research Assistant II to Research Assistant III.

Philip E. McClung - Purchasing - from Buyer II to Senior Buyer.

Marguerite K. McElroy - O.E. - from Research Assistant I to Research Assistant II.

Mozart P. Moniz - Purchasing - from Senior Buyer to Assistant Purchasing Manager.

Douglas E. Moore - Chemistry - from Research Assistant II to Research Assistant III.

Charles A. Olson - Chemistry - from Research Assistant III to Senior Research Assistant.

Anna Maria Peirson - Library - from Library Technician I to Library Technician II.

Ruth N. Poppe - Systems & Procedures - from Laboratory Assistant II to Research Assistant I.

Warren J. Sass - O.E. - from Research Assistant III to Research Associate.

Pamela L. Saunders - Directorate - from Clerk-Typist to Switchboard Operator/Receptionist.

Frederick J. Schuler - O.E. - from Research Assistant III to Senior Research Assistant.

William L. Sylvia, Jr. - Marine - from Oiler, R/V KNORR, to Junior Engineer, R/V OCEANUS.

Susan A. Tarbell - P.O. - from Research Assistant III to Senior Research Assistant.

Rodman E. Taylor, Jr. - Biology - from Research Assistant II to Research Assistant III.

William E. Terry, Jr. - O.E. - from Research Assistant III to Research Associate.

Toshiko T. Turner - P.O. - from Laboratory Assistant II to Research Assistant I.

### Recent transfers include:

Emily Evans - from Staff Assistant-Information Processing Center, O.E., to Staff Assistant-Geology, G & G.

Elizabeth R. Fye - from Photographic Technician, Graphic Services, to Photographic Technician, Library.

Richard M. Hanley - from Able Body, R/V KNORR, to Able Body, R/V ATLANTIS II.

Paul R. Mercado - from Chief Engineer, R/V OCEANUS, to Chief Engineer, R/V ATLANTIS II.

John Porteous - from Photographic Supervisor, G & G, to Photographic Supervisor, Library.

Conrad H. Ocampo - from First Cook, R/V KNORR, to Steward, R/V OCEANUS.

Ernest G. Smith, Jr. - from Radio Electronics Officer, R/V ATLANTIS II, to Radio Electronics Officer, R/V KNORR.

Allard T. Spencer - from Research Specialist, P.O., to Research Specialist, O.E.

Ernest C. Wegman, Jr. - from Ship's Maintenance Repair Foreman, Marine Operations, to Acting Chief Engineer, R/V OCEANUS.

Richard A. Zuck - from Experimental Machinist, P.O., to Experimental Machinist, O.E.

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

CHEMIST APPOINTED ASSOCIATE SCIENTIST

Michael Bacon, an assistant scientist in the Chemistry Department, has been appointed an associate scientist.

Mike received his B.S. from Michigan State University and his Ph.D. from the WHOI/MIT Joint Program. He was a post-doctoral research associate at the U.S. Geological Survey before his appointment to the Institution staff as an assistant scientist.

His research interests are chemical oceanography, radiochemistry, and applications of uranium-series disequilibrium.

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BIOLOGIST ELECTED MBL TRUSTEE

Microbiologist Holger Jannasch was one of six Corporate Trustees elected at the annual meeting of the Marine Biological Laboratory in August. He will serve a four-year term.

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AAAS PRIZE AWARDED TO WHOI GEOLOGIST

The American Association for the Advancement of Science (AAAS) awarded the 1980 Newcomb Cleveland Prize to WHOI's Bob Ballard and 21 other authors of the paper "East Pacific Rise: Hot Springs and Geophysical Experiments." The article, published in the AAAS journal Science March 28, 1980, described a series of dives off the coast of Baja California at the East Pacific Rise between March and May 1979.

Fred Spiess of Scripps Institution of Oceanography accepted the award for himself and the other authors who participated in the project and production of the research paper. The winners will each receive a bronze medal and a portion of the \$5,000 prize.

The award was one of three AAAS-sponsored prizes presented during the annual meeting in Toronto January 3-8, 1981.

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HEYL ELECTED TO EDUCATION COUNCIL

John Heyl, special assistant for private resources, was one of five persons elected to the Executive Committee of the Council for Advancement and Support of Education (CASE), District I, at the district meeting in Hartford January 27.

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## NEW FACES

February 1981



Leonard A. Boutin  
Research Assistant  
O.E./K. Peal  
Big. 109/x2442



Barbara S. Farr  
Research Assistant  
Bio./R. Naiman  
Clark 416/x2584



Bach-lien Hua  
Postdoctoral Invest.  
P.O./B. Owens  
Clark 358/x2801



Mary Ann Lucas  
Secretary  
P.O./E. Soderland  
Clark 318/x2506



Nick Staresinic  
Visiting Invest.  
CRC/J. Farrington  
Redf. 3-24/x2740



Ralph K. Swenson  
Research Assistant  
ALVIN/LULU Ops./  
J. Donnelly  
Smith 301/x2579

## SOCIETY FORMED TO STOP CONTINENTAL DRIFT

According to the January 1981 issue of Sea Technology, the Flat Earth Society and its efforts to rectify the common impression that the earth is round has now been joined by a similar group trying to halt a popular movement in geological science. This new group is the International Stop Continental Drift Society (ISCDS), founded by John Holden.

Holden, who also serves as the organization's president, has some familiarity with the oceans. He illustrated a book called "The Id of the Squid" by Arch E. Benthic, published by Compass Publications, Inc. (publisher of Sea Technology).

The Society's motto is "Eschew Sea-Floor Spreading," and its bumper sticker states "Stop Continental Drift." The group publishes a newsletter as well; one recent issue had a photo of the unveiling of the "Leiden Screw," a device designed by Professor Swart of Leiden University, The Netherlands, to stop the movement of the Eurasian Plate.

Other items in the newsletter included a campaign to Re-Unite Gondwanaland. Funds for that campaign were said to have been forwarded to UNDOING (United Nations Development Organization in Gondwanaland). Another issue contained the following limerick by Jack Smiley:

There was a young lady named Ocean  
Whose Bottom was ever in motion.  
Sat on a Hot Spot -  
A flushed bottom was got!  
What an outcry it brought, what commotion.

If you are interested in joining ISCDS, send \$5.00 to John Holden at Star Route 38, Winthrop, Washington 98862.

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## A NOTE OF THANKS

*I have just been released from the New England Deaconess Hospital and am convalescing at home.*

*I wish to extend deep appreciation and thanks to all of you who thought of me in so many thoughtful and beautiful ways which helped get me through some very difficult days. I love and miss you all and look forward to the day I return to work.*

*Happiness and good health to you all in 1981.*

*Kal Hatzikon*

## IN MEMORIAM

The Institution notes with sorrow the deaths of Corporation Member Philip Armstrong and Ambassador Hamilton Shirley Amerasinghe, president of the Third United Nations Conference on the Law of the Sea.

Philip Armstrong was elected a Member of the WHOI Corporation in 1950 and became an Honorary Member in 1974. He was the fifth director of the Marine Biological Laboratory, serving in that position from 1950 to 1966.

Hamilton Shirley Amerasinghe served as Permanent Representative of Sri Lanka to the United Nations from 1967 to 1978. He was a member of many U.N. bodies and had been president of the Third United Nations Conference on the Law of the Sea, which has been in session since 1973. Ambassador Amerasinghe presented the thirteenth J. Seward Johnson Lecture in Marine Policy September 26 at the conclusion of the Third International Congress on the History of Oceanography in Woods Hole.

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## COMPUTER PROGRAM EXCHANGE SUGGESTED

A number of individuals at the Institution use Texas Instruments computers and may be interested in exchanging programs with other users.

Bob Munns, first mate on ATLANTIS II, is willing to share his programs for Texas Instruments Model 59 (TI 59) and suggests that other TI 59 operators could do the same. His available programs are: dead reckoning from two fixes, radar (closest point of approach), ocean currents from satellite fixes, meteorology factors apparent to true, and calculation of the amount of wire on a winch drum. Bob can supply magnetic cards or paper tapes; contact him when the ATLANTIS II is in port or write to him in care of the ship.

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## CARE REQUESTED FOR CPR TRAINING MANNEQUINS

Several of the Institution's mannequins used in training employees in cardiopulmonary resuscitation (CPR) have recently been damaged while in storage. The mannequins cost several thousand dollars and are expensive to repair. Please don't abuse them. Course instructors would rather spend training funds on teaching aids than on mannequin repairs.