



December 1984

NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION



Senator Edward Kennedy discussed oceanographic funding with Dave Ross, Bob Spindel, Charlie Hollister, and Derek Spencer on board OCEANUS. Photo by A. Rabushka.

SENATOR KENNEDY VISITS WHOI

Senator Edward Kennedy sailed his Wianno sloop to the WHOI dock on November 8, where Derek Spencer, Dave Ross, Charles Hollister and Bob Spindel welcomed him to the Institution. After a quick tour of the Iselin facilities, the Senator, ruddy faced from a day's sailing on a windy Vineyard Sound, was ushered on board the R/V OCEANUS. Over cups of hot coffee, the Senator and WHOI administrators discussed the state of oceanographic funding and particular Institution programs and needs.

The Senator's fact-finding meeting with WHOI representatives had been organized only three hours earlier. Dave Ross had received a call at 12:30 that the Senator would be arriving shortly. But unfavorable sailing conditions delayed the arrival time by over an hour.

Sen. Kennedy discussed various issues concerning oceanographic research and Institution programs with the WHOI representatives including funding of Sea Grant programs (an item that has been consistently cut out of the Reagan budget and reinstated by Congress), a possible visit by the National Science Foundation (NSF) director Eric Bloch to WHOI sometime

in the near future, the institution of a discretionary fund (on top of the regular NSF budget) for use by the director to initiate new research projects, and the fate of the chairmanship of the oceanography subcommittee in the House (Charlie Hollister wondered about the chances of Gerry Studds assuming that position).

Both Charlie Hollister and Dave Ross report that the Senator's staff has been very helpful and quick to follow up on many of the points. They report that visits by some of the Senator's staff to the Institution should be forthcoming.

Charlie Hollister noted that although the official meeting was only a short one (a little over an hour), it was extremely worthwhile and productive. In addition, Charlie and graduate student Maggie Goud joined the Senator and his sailing companion Cindy Pease in the Captain Kidd while he waited for his driver. Their informal discussion, according to Maggie, ranged from pointers on how to work the Hill and the values of bipartisanship, to funding of graduate students and oceanography in general. The Senator mentioned plans for rebuilding the Nantucket Lighthouse destroyed in a March gale, for which he has worked to get federal funds. (Sediment transport, a major reason for the collapse of the lighthouse, is Maggie's primary field of research.)

The Kennedy sloop VICTURA remained at the WHOI dock until Thanksgiving when it was sailed back to the family compound in Hyannisport.

Merry Christmas

PATENTS II: HOW DO I GET ONE?

by Fritz Hess, Secretary
Inventions and Patents Committee

Obtaining a patent on ideas, devices, techniques or methods conceived during employment at the Institution involves the following steps:

1) Make a disclosure of the idea to the Institution's Inventions and Patents Committee. The form most generally used within WHOI is the Navy form, NAVSO 5870/35. This form is available from the committee secretary or your department representative. It is self-explanatory. The committee receives and dates the disclosure receipt.

2) The first step requires that the secretary of the Committee submit a copy of the invention disclosure to the agency which funded the inventor's work leading up to the invention. All WHOI contracts with government agencies require that prompt and complete disclosure be made of any such ideas, whether or not they are reduced to practice.

3) The Committee meets to determine the initial disposition of the disclosure. There are several options: It may be sent on to the Research Corporation for evaluation (more on them later); it may be deemed worthy of filing by the Institution immediately; or it may be returned to the inventor for his own, personal filing. A data-base search is conducted for prior art.

THE DISCLOSURE

The disclosure form requires, in addition to a brief description of the invention, a listing of all of the records, dates, tests, and models of the invention. Copies of any papers, internal reports, or proposals which refer to or disclose the invention or its existence should also be attached. It is important to note that any public disclosure of the invention starts a one-year clock, at the end of which time patent application must have been made or the invention becomes public domain and cannot be patented.

While most of us keep notebooks of our work, a notebook should be of the bound type with numbered, dated pages to be a valid means of establishing authorship of an invention. (Loose-leaf and spiral-bound books do not qualify.) When any entry is

made that pertains to the invention, each page should be signed and dated by the inventor and one or two others to whom he has explained it. They sign the page(s) as having "read and understood" the material.

REPORTING

As part of its contractual obligations, the Institution is expected to report to the funding agencies any inventions which result from sponsored research. The Inventions and Patents Committee will take care of this procedure.

OPTIONS

The Committee may refer the invention to the Research Corporation (RC). WHOI has a standing agreement which specifies that RC will accept all disclosures that WHOI submits for evaluation. The basis for evaluation is not only the patentability of the invention but also its market value. Frequently, before even going into the patenting process, RC will have a customer lined up. They are very hard-nosed, accepting very few disclosures for patenting. RC is primarily interested in chemical/biological/pharmacological inventions. Royalties received by RC are shared 60-40 with the Institution, with RC keeping the smaller percentage.

A search of the literature is done by means of computer data-bases. Prior related work, if any, is examined by the committee and shared with the inventor. He may add to or modify his disclosure as a result of such findings.

The committee may decide that the invention is one that the Institution should pursue directly. This might be the case if, for instance, the invention did not appear to be potentially marketable but would establish WHOI as a leader in a particular area of research. Alternatively, we may be lucky (or perspicacious enough) to recognize a really significant and/or potentially profitable invention. Funds are available to follow up on a limited number of such inventions.

The committee may elect to return the invention to the inventor. This might be the case if the invention were clearly in a field outside the line of work of the individual at WHOI.

The committee may defer to the inventor. This would, in effect, say: "we do not see the utility of the invention or its potential for profit." The inventor would be free to apply for patent himself with the proviso that the invention must be available, license-free, to the government (assuming that it was conceived on a government contract).

If RC, WHOI, and the inventor decline to pursue a patent, the funding agency is notified and they then have the option of filing. This will be done to protect the government from having to pay licensing fees should someone else patent the idea. Sometimes it is done for prestige or to demonstrate to Congress that there is significant fallout from the research dollar. In many cases, the funding agency is satisfied if the invention is published as a paper in the literature and does not pursue the patent.

NEXT TIME: "WHY SHOULD I GO TO THE TROUBLE OF MAKING A DISCLOSURE?" Meanwhile, your department representative on the Inventions and Patents Committee will be glad to answer any questions.

POTTING AND MOLDING SERVICES AVAILABLE

An experienced operator has been found and once again cable splicing and molding of a variety of parts and configurations is available. Call Tom, ext. 2715, or Fritz, ext. 2275, for more information.

TAKAHASHI NAMED ASSISTANT SCIENTIST

Kozo Takahashi has been appointed an assistant scientist in the geology and geophysics department. Kozo, a 1981 joint program graduate, had been a postdoctoral scholar at WHOI the following year. From 1982 to 1984 he served as an assistant research geologist at Scripps.

Kozo received bachelor's degrees from Hokkaido University and the University of Washington. His research interests include biogeochemical interactions of biogenic silica with seawater in the water column and sediments; ecology of radiolaria, silicoflagellates and diatoms; and silica budget in the world oceans.

IN MEMORIAM

The Institution announces with sorrow the death of Sir George Edward Raven Deacon on November 16 at the age of 79.

Sir George was a doyen of British oceanography, serving in many capacities as both working scientist and able administrator. Early in his career he had participated in voyages to the Antarctic with DISCOVERY investigations from 1927-1939. During World War II he served with various Admiralty research establishments. His later research again focused on general circulation studies of the Antarctic Ocean and theoretical and practical approaches to problems of physical oceanography.

Fritz Fuglister, scientist emeritus in the physical oceanography department, notes that before and even after WW II there were a few people around the world who acted as the guiding forces in oceanography. Sverdrup was one, Columbus Iselin another, and Sir George Deacon was a third. "Almost anything that emanated from that part of the world was under his auspices," Fritz said.

Sir George was knighted in 1971 upon his retirement from England's National Institute of Oceanography, where he had served as Director since the Institute's inception in 1949. Other honors included the Alexander Agassiz gold medal in 1962 and the Polar medal in 1942.

The Royal Society elected him a Fellow in 1944. He served as president of the International Association of Physical Oceanography from 1960-63 and was vice president of the Royal Geographic Society from 1965-66.

Sir George was a frequent visitor to Woods Hole, participating in numerous planning and scientific meetings. As director of N.I.O. he worked closely with WHOI's Henry Stommel. During WHOI's 50th anniversary activities, he gave one of the opening addresses at the Third International Congress on the History of Oceanography, speaking on "The Woods Hole Oceanographic Institution: An Expanding Influence."

A volume of scientific papers, entitled A Voyage of Discovery, celebrated his 70th anniversary. A supplement to Deep Sea Research, the book included works by WHOI scientists Mel Briscoe, Fritz Fuglister, Mike McCartney, and Bruce Warren.

DECEMBER EVENTS

30-YEAR EMPLOYEES TO BE HONORED DEC. 14

WHOI will officially recognize R. Lorraine Barbour, senior research assistant in P.O., Richard S. Edwards, marine superintendent, and Michael Palmieri, Jr., first mate on the OCEANUS, for 30 years of service to the Institution on Friday, December 14, at 4 p.m. in Clark 507. Appreciation will also be extended to those who have retired in 1984. All hands, families, and friends are welcome.

WINTER MEETING OF CORPORATION DECEMBER 7

The Winter Meeting of the Corporation and Trustees of the Woods Hole Oceanographic Institution will be held December 7 at the Harvard Club in Boston. Bob Gagosian, chairman of the chemistry department, will give the science report, "The Atmosphere as a Pathway Between the Land and the Sea."

1985 WHOI CALENDARS NOW ON SALE

The 1985 WHOI Calendar, featuring 12 black and white photos of different aspects of oceanographic research, is now on sale at the stockroom for \$2.31. They make great holiday gifts!



UNITED FUND REMINDER

This is your last chance to contribute to the 1984 United Fund Drive. Nat Corwin, WHOI United Fund Chairman, reports that employees have contributed about \$7,000, well below last year's total of \$10,500. If you've misplaced your pledge card, he has plenty on hand. Nat can be reached at Clark 413, ext. 2822.

CHRISTMAS SAFETY NOTICE

Eric Spencer, Safety Officer, warns all employees that Massachusetts fire regulations prohibit live Christmas trees or decorative greens in WHOI buildings.

CHRISTMAS PARTY TICKETS NOW ON SALE

Tickets for the annual Christmas Party are now available at convenient locations around WHOI. Ticket sellers are: Jeanne Young (Clark 200), Retha Charette (Quissett Warehouse), Alice Tricca (McLean), Terri Monroe (Nobska House), Steve Edwards (Crowell), Doreen Perito (Challenger), Jane Peterson (Redfield), and Linda Benway (Smith Lobby). Prices for the tickets are \$19 each for dinner/party (filet mignon or baked stuffed shrimp) and \$5 each for party only. Additional tickets after the first two are priced at \$20 and \$6, respectively. Deadline for dinner tickets is December 7. Party tickets will be available until December 13 or can be purchased at the door for \$6.

Entertainment at the party will be provided by John Salerno and his 12-piece band, offering a variety of music from big band to contemporary sounds. Hot and cold hors d'oeuvres will be served and cash bars will be available.

The New Seabury Inn and Country Club, site for the party, is located in the recently constructed New Seabury development. Take Route 28 to the Mashpee Rotary and follow the signs for New Seabury. The Inn and Country Club has placed large directional signs throughout the complex.

For additional information contact Anne Rabushka, ext. 2271, or the closest ticket seller.

1986 SHIP SCHEDULING MEETING DECEMBER 18

The 1986 ship scheduling cycle is beginning for the Northeast Consortium Research Fleet (NECOR) consisting of R/V's CONRAD, ENDEAVOR, KNORR, and OCEANUS. Some ATLANTIS II time might also be available, although scheduling is primarily through the ALVIN Review Committee. The WHOI site meeting will be Tuesday, December 18, at 2 p.m. at Redfield Auditorium. Meetings for the other consortium members will be December 11 at 1 p.m. in the Lamont-Doherty Geosciences Building, Room 203, and January 1, 1985 at 1 p.m. in the Watkins Building, Room 12, URI.

Principal investigators proposing ship use from any NECOR or UNOLS ship are invited to attend and participate in the discussions. Ship request forms, available from Carole Merson, 38 Water St., ext. 2293, should be submitted to any of the NECOR labs or to the UNOLS office prior to December 7. Any requests submitted for 1985 which have not been acted upon or have been deferred should be updated.

WHOI WIVES' COFFEE HOUR DECEMBER 4

There will be a WHOI wives' coffee/doughnut hour on Tuesday, December 4, in Fenno House from 10 to 11:30 a.m. Wives, children, friends, and guests are all welcome. WHOI newcomers are especially encouraged to attend. Contact Marge Frisk, 563-5308, Bev Chapman, 548-3438, or Karen Dacey, 540-7419, for more information.

RENAISSANCE FAIR SET FOR DECEMBER 9

The annual Christmas Renaissance Fair of the Woods Hole Community Association will be held on December 9 from noon until 4 p.m. at the Community Hall and old Fire Station. Local craftspeople will be displaying and selling their arts and crafts. Cathy Scheer reports that the fair needs more volunteers, especially to prepare and sell cakes, cookies, and other food items. Contact Cathy, ext. 2856, if you'd like to be part of the festivities.

BENEFIT BRIEFS

Tax Sheltered Annuity Meetings

Representatives from TIAA/CREF and Fidelity will be at WHOI to discuss available vehicles for tax savings. Reserve either noon Thursday, December 13, at Clark 507 or noon Tuesday, December 18, in Redfield Auditorium, to hear how the smallest contribution can improve your present tax situation and increase your spendable income upon retirement. Contact Terri Monroe, ext. 2706, for additional information.

REGISTRATION FOR WHOI DIVING COURSE OPENS

Classes are now forming for the 1985 WHOI SCUBA certification program. The classes are scheduled to begin in early March and in early May. You must be involved in an Institution-sponsored research project which requires diving to be eligible to take the course. Current CPR and first aid certification are prerequisites -- information about these courses can be obtained from the Safety Office, ext. 2242. If you are eligible and wish to sign up for the WHOI SCUBA course, call Terry Rioux, ext. 2239, Iselin 151. Terry can also provide information about sport diving.



NEW FACES

December 1984



Marion E. Andrews
Secretary
Administration
Clark 206A/x2521
J. Kiebala



Blair H. Brumley
Postdoctoral Invest.
Ocean Engineering
Bigelow 110/x2881
E. Terray



Carl G. Johnson
Research Assistant
Chemistry
Fye 123/x2304
W. Frew



Salvi Naples
Research Assistant
Physical Oceanography
Clark 128/x2899
R. Chase



John M. Powers
Buyer
Purchasing
Geosecs/x2373
M. Moniz



Barbara Wickenden
Personnel Manager
Personnel
Nobska House/x2636
J. Kiebala



Brian R. Wolf
Research Assistant
Physical Oceanography
Clark 340B/x2812
R. Schmitt

PROMOTIONS AND OTHER PERSONNEL CHANGES

Recent promotions include:

- ROGER A. GOLDSMITH - O. E. - from Research Associate to Research Specialist.
MARY M. HUNT - O. E. - from Research Associate to Research Specialist.
LEWIS J. SAFFRON - Services - from Service Assist. to Facilities Services Asst.

Recent transfers include:

- SHIRLEY A. CERRETO - from Hostess in Food Services to Food Service Assistant in Services.
SHELLA T. PAYNE - from Food Services to Services.
BETH L. STONE - from Hostess in Food Services to Food Service Assistant in Services.
PATRICIA E. THOMPSON - from Food Services to Services.

Recent appointments include:

- BLAIR H. BRUMLEY - O.E. - Postdoctoral Investigator.

SWAP SHOP COLUMN STARTS NEXT MONTH

Starting in the January 1985 issue, the WHOI Newsletter will run a column of Institution employee-owned items for sale/swap/give-away. Ads for inclusion in this column should be typed and 20 words or less in length. Include your name, WHOI telephone extension, and send to Anne Rabushka, Co-op, by the 15th of each month for inclusion in the next month's issue.





**LIGHTS...CAMERAS...ACTION! WHOI DIVERS
IN THE MOVIES**

It looks like a serious accident -- crowds, police, an ambulance, and divers. But it's only a movie scene from "Where are the Children?" being filmed at Squeteague Harbor on the Bourne/N. Falmouth town line. WHOI employees Rod Catanach (second from left) and Terry Rioux (right) took a day and two days off, respectively, to be in the movies. Rod's wife, Kathy (USGS), is on the far left.

They found out that the life of a movie extra is not very glamorous and quite boring much of the time. "You're not going to get rich being an extra," remarks Rod, "but it was an interesting experience, well worth doing once."

On Friday, November 9, when the photo was taken, the divers spent about three hours in the water pretending to be police divers searching for two missing children feared drowned in the harbor. "Hurry up and wait" seemed to be the order of the day, notes Terry. "For example, the time they hurriedly got us back into the water for one more shot, then decided to break for lunch."

The WHOI extras got to meet the movie's stars, Jill Clayburgh and Max Gail, and were treated to lunch, dinner, and drinks. In addition to the Tuesday and Friday scenes, Terry and his wife, Maggie, were extras on a Saturday night shoot, a flashback scene to an earlier part in the story. "It's probably the only time a New England site has been used to portray a California location," joked Terry.

The movie, which has been filming in and around Falmouth over the past month, is due in theaters next autumn.

OCEANOGRAPHIC SHIP NOTES

KNORR returned to Woods Hole on November 28 from Leg III of Voyage #110 which left Bridgetown, Barbados, on November 17. During the cruise, free-drifting RELAYS buoy systems were recovered and serviced. The buoys had been deployed enroute to Barbados during Leg I of this voyage. KNORR will remain in Woods Hole until December 9 when she will leave for a 12-day HEBBLE cruise, returning to Woods Hole December 20 for a holiday rest.

ATLANTIS II and ALVIN departed San Diego November 17 on Leg XVI of extended Voyage #112. During the two-week cruise, 12 ALVIN dives in the Santa Catalina Basin examined ecological energy transfer of the benthic boundary layer. In December, two five-day cruises are scheduled to depart and return from San Diego. A-II and ALVIN will undergo routine maintenance during the last few weeks of the year.

OCEANUS departed Woods Hole on November 26 on Voyage #160, scheduled to return December 11. The purpose of the cruise is to study biological processes on the Mid-Atlantic Continental Slope off the New Jersey/Delaware coast in order to assess the impact of exploratory drilling activities on benthic communities. OCEANUS will remain in port for the holidays and then undergo routine maintenance until late January.

**Happy
New Year**