



NEWSLETTER

Volume 15

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June 1974

WORTHINGTON NAMED NEW CHAIRMAN OF PHYSICAL OCEANOGRAPHY DEPARTMENT

Val Worthington has been named chairman of the Physical Oceanography Department. He has been associated with the Institution, except for three years in the Navy, since 1941.

Worthington succeeds Ferris Webster, who was appointed Associate Director for Research last spring and has been filling both positions since then.

Worthington studied at Princeton University from 1938 to 1941 when he came to the Institution as a technician, but he is a member of the Society of Subprofessional Oceanographers, an exclusive organization with membership limited to oceanographers who have "limited educational qualifications". (The other members are Fritz Fuglister and Hank Stommel.)

Degree or not, Worthington is a respected oceanographer, who is well-known particularly for work on Atlantic circulation. His early research was in sonar ranges and on Gulf Stream and Arctic Ocean circulation (including "ski jump" operations which involved landing on Arctic ice and cutting holes to take hydrographic stations through the ice). He is presently engaged in studies of the water masses of the world's oceans in relation to climate.



Val Worthington, right, talks with Buck Ketchum at Physical Oceanography party celebrating Val's appointment as department chairman. Behind them, left to right, are Gary Metcalf, Lorraine Barbour and Eloise Soderland.

TRUSTEES AND CORPORATION TO MEET, ESL TO BE DEDICATED ON JUNE 20

Dedication of the Environmental Systems Laboratory (ESL) on the Quissett Campus is scheduled for June 20 at 2:30 p.m. to coincide with the meeting day of the Institution Corporation and Trustees. An open house for Oceanographic employees will follow the dedication. Shuttle buses to ESL will run from the School street side of Redfield Building beginning at 1:45 p.m.

Dedication speaker will be Athelstan Spilhaus, meteorologist, oceanographer, NOAA consultant, former staff member and current member of the W.H.O.I. Corporation. He is also the inventor of the bathythermograph and the Spilhaus space clock.

*** OCEANOGRAPHIC SHIP NOTES ***

ATLANTIS II completed three and a half months work with the Coastal Upwelling Ecosystems Analysis off Spanish Sahara at the end of May and then headed for Dakar to join the GARP Atlantic Tropical Experiment (GATE) for the months of June and July. The purpose of the cruise is to study the equatorial undercurrent and surrounding waters across the Atlantic Ocean as part of the U.S. participation in the international GATE program. GATE will employ 25 to 30 ships, a dozen aircraft, 75 to 100 land stations, and satellites and instrumented ocean buoys for an intensive study of the behavior of cloud clusters and their role in the larger circulation of the atmosphere.

During the A-II cruise, about 50 hydrographic stations are planned including Nansen casts (to be analyzed for salinity, dissolved oxygen, nutrients, and iodates), STD lowerings (to be analyzed for conductivity, temperature, pressure, and dissolved oxygen), current meter lowerings, drogues, and free-falling microstructure instruments. There will be continuous echo sounding and bathythermographs, and four periods of about four days each are programmed for continuous towing of *in situ* sensors as much as one kilometer behind the ship while making speeds up to eight knots. Two bottom-anchored, taut-wire moorings are to be deployed for later use as a fixed reference by the East German ship, the VON HUMBOLDT.

★ ★ ★ OCEANOGRAPHIC SHIP NOTES ★ ★ ★

With ALVIN on deck and LULU in tow, KNORR left the Oceanographic dock early in June for the Azores, home port for the French-American Mid-Ocean Undersea Study (Project FAMOUS). Activities aboard the KNORR will concentrate on studying the basic geological and geophysical processes active on the Mid-Atlantic Ridge and on completing a geological map of the area. ALVIN and the French submersibles ARCHIMEDE and CYANA will be making some 60 dives between late June and mid-August for a closer look at the geological processes on the Ridge.

CHAIN completes the seven-leg Southlant cruise late this month, returns briefly to Woods Hole, and goes to a shipyard for maintenance.

GOSNOLD, still in Florida working for the Harbor Branch Foundation, struck a submerged object in the channel out of Ft. Pierce last month. A tank was holed, but flooding was confined to the tank void. She was drydocked for the repair and is now back at work.

NEW GRANTS

Recent new grants to the Institution include:

- \$37,700 from the National Science Foundation to Dave Wall for 12 months for "Biology and Paleontology of Marine Dinoflagellates and Hystrichospheres";
- \$68,835 from the Atomic Energy Commission for 12 months to Charley Hollister for development and testing of an improved version of the W.H.O.I. giant corer for use in the Abyssal North Pacific to obtain long, undisturbed, continuous core samples.

NEW ELECTION PROCEDURE APPROVED BY STAFF COMMITTEE ELECTORATE

A Staff Committee change-of-election-procedure proposal, which failed last fall for lack of voter interest, was approved in a new referendum last month.

Under the new election procedure, names appearing on the ballot will have been endorsed by five members of the electorate, and the candidate will have agreed in advance to serve on the Staff Committee if elected.

Previously, names of all those eligible to serve (all members of the scientific and technical staff) have been listed on the ballot, and those receiving the highest number of votes fill the vacancies (usually four per year for the eight-member committee).

Staff Committee members have felt that one of the main drawbacks of the original system has been that when those elected declined to serve, all those who voted for them wasted their votes. The wide distribution of votes has also meant that those elected felt they had limited support. For example, in the last election, the

leading candidate received 24 votes (the electorate was more than 400), and there was a five-way tie for third place with each receiving 18 votes. (In such a case, names are drawn from a hat to resolve the tie.)

When the amendment was presented to the electorate last fall, the 201 voters participating turned in a five-to-one favorable vote. (The electorate consists of members of the scientific and technical staff plus all other employees with more than five years of service.) However, the Staff Committee charter requires that "a majority of the electorate" must approve an amendment to the charter, so that 203 favorable votes would have been required for passage. Therefore, a special effort was made to turn out the electorate in this election; of the 402 eligible voters, 285 or 71% cast ballots. Of these 250 (88% of those voting and 62% of the total number of eligible voters) approved the amendment, and 35 (12% of those voting, 9% of those eligible) disapproved.

A message from the Staff Committee says, "When it is considered that all three of the big ships were at sea during the voting period, the Staff Committee feels that the 250 vote return really represents a much larger voter turnout than the 71% figure seems to indicate. The Committee is very grateful for the large response in the matter and feels that the new amendment will materially strengthen future committees."

VALOIS PROMOTED TO RESEARCH SPECIALIST

Freddy Valois of the Biology Department has been promoted to Research Specialist. A graduate of Mt. Holyoke College, she came to W.H.O.I. in 1962 following several years as a research associate at Harvard Medical School. Her present work in Stan Watson's lab concerns techniques for production of *Limulus* lysate, nitrification in the ocean, structure function relationships of membranes of bacteria, and marine microbial mineralization of organics. Freddy served on the interview panel for the Personnel Review, and she was elected to the Staff Committee early this year.

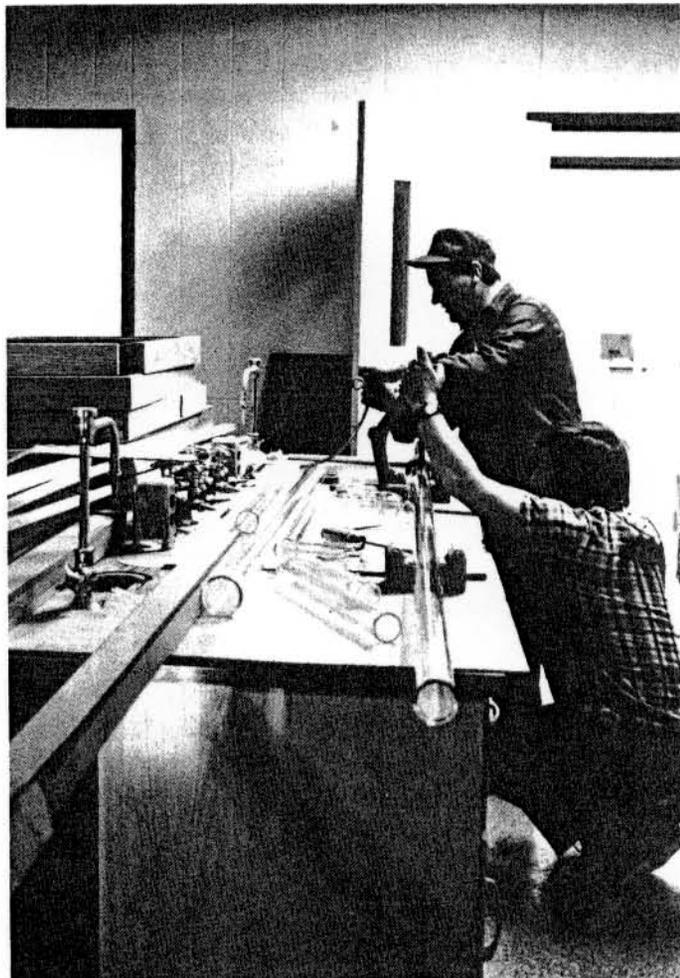
FYE IS ELECTED TO ACADEMY, VISITS RUSSIA

Director Paul Fye was elected a member of the prestigious American Academy of Arts and Sciences at the organization's 194th annual meeting this spring. He was one of 117 new members elected to the organization, which was founded in 1780 by John Adams.

Dr. Fye went to Moscow in late May for a nominating committee meeting of the International Federation of Institutes for Advanced Study. Following the meeting, he was escorted on a two-week tour of the Soviet Union by Prof. Igor Mikhaltsev, Deputy Director of the Russian Academy of Sciences Institute of Oceanology.



All scaffolding is down as the new central laboratory moves toward completion.



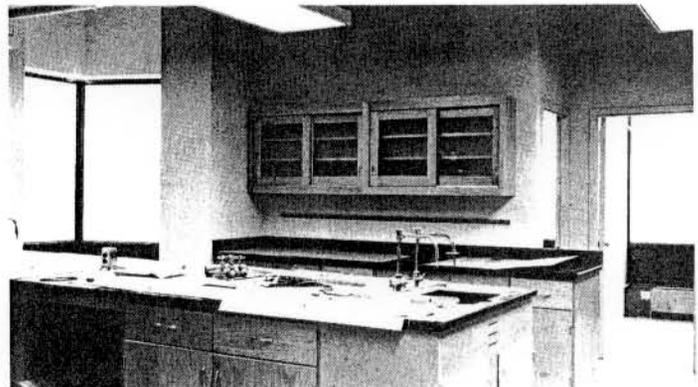
Workmen prepare clear chemical waste lines for installation on the chemistry wing on the fourth floor.



Jim Gifford sports a whimsical hard hat on his visits to the central lab (hat is borrowed from Bobby Weeks).

QUISSETT BUILDING PROGRESSES

This is one of the biology labs on the east wing of the fourth floor.



COMPUTER CLASSES SCHEDULED IN JUNE, JULY

Several computer courses will be offered in the next few weeks by the Information Processing Center. The areas of Job Control Language, *Fortran* Language and Programming Practices will be covered on the following schedule:

FORTRAN:

1) A beginners' class (for people who have never before programmed a computer) will be taught by Roger Goldsmith.

Tuesday, Wednesday and Thursday - June 18, 19, 20 - 9:00 - 12:00 a.m.

2) An advanced class (for people who want to learn more about the intricacies of *FORTRAN*, such as subroutine structure, negative subscripts and equivalences) will be taught by Mary Hunt.

Wednesday, Thursday and Friday - June 26, 27, 28 - 9:00 to 12:00 a.m.

Job Control Language

1) A "cookbook class" (for people who have used control language on other computers and want to use the Sigma 7) will be taught by Warren Sass.

Wednesday and Thursday - June 19 and 20 - 1:30 to 3:30 p.m.

2) An explanatory class (a general explanation of the operating system and a review of utility programs) will be taught by Warren Sass.

Monday and Tuesday, June 24 and 25, 9:00 to 12:00 a.m.

Programming Practices

A course covering program planning, organization, debugging and documentation will be taught by Bill Freund.

Monday and Tuesday, July 1 and 2, 9:00 to 12:00 a.m.

SUMMER STUDENT FELLOWS COME ABOARD

Welcome to the 1974 Summer Student Fellows! (Staff sponsors are listed in parentheses).

In Chemistry, the student fellows are Elizabeth Walker of Hampshire College (Jelle Atema), Adam Borison of Yale (Bob Gagosian), and Windsor Sung of M.I.T. (Geof Thompson).

In Geology and Geophysics: Karen Romine of the University of Georgia (Dave Ross), Colleen Hogan of Mount Holyoke College (Colin Summerhayes), and Denise Gaudreau of Brown University (Bill Berggren and George Lohmann).

In Physical Oceanography: John Toole of the University of Maine (Mel Briscoe) and Peter Doyle of Harvard (Peter Rhines).

In Biology: Carol Brown of Baylor University (John

Ryther), David Riper of Pennsylvania State University (Ed Carpenter), Sarah Horrigan of Carleton College (Tony Remsen and Ed Gonye), Aileen Schumacher of New Mexico State University (John Teal and Ken Smith), Bradford Berk of Amherst College (Jon Tuttle), Ellen Simpson of Simmons College (Bob Guillard), Lawrence Burkhard of Pennsylvania State University (Bill Kerfoot), Lisa Levin of Harvard (John Stegeman) and Doreen Fundiller of the State University of New York, Stony Brook (Fred Grassle).

JOINT PROGRAM GRADUATES WILLIAMS

Dave Williams successfully defended his doctoral dissertation May 20 and became the 33rd graduate of the M.I.T./W.H.O.I. Joint Program in Oceanography. His thesis title is *Heat Loss and Hydrothermal Circulation Due to Sea-Floor Spreading*.

Dave is a mathematics graduate of the University of Texas, and he was in the Navy for 10 years, serving as a nuclear submarine officer, before entering the Joint Program three years ago.

In addition to completing work on his thesis, Dave has also supervised the design of a thermal probe and a hard rock core drill, which will be a part of the ALVIN and KNORR instrumentation used this summer on Project FAMOUS.

SMU HONORS MARY SEARS WITH DEGREE

Mary Sears was awarded an honorary Doctor of Science degree at Southeastern Massachusetts University June 9. She also holds an honorary degree from Mount Holyoke, and her B.A., M.A., and Ph.D. degrees are from Radcliffe College.

BALLARD COMPLETES DOCTORATE AT URI

Bob Ballard completed his Ph.D. work at the University of Rhode Island this spring. His thesis topic is *The Behavior of the Margin of North America During Continental Separation*. His undergraduate work was at the University of California. Bob worked with the Institution's ALVIN group during his Navy assignment in Boston as Oceanographic Liaison Officer for the Northeastern United States. He has been a Research Associate since his 1970 separation from the Navy, first with the ALVIN group and currently in the Geology and Geophysics Department. His recent work has concentrated largely on Project FAMOUS, and he will be one of six American scientists diving in ALVIN on the Mid-Atlantic Ridge this summer.

TRAP COLLECTS DEEP SEA SEDIMENTS

The "rain of particles" to the deep-sea floor is considered a probable means of supplying food to organisms inhabiting the depths of the ocean. Major components of this material are expected to be fecal pellets, crustacean shells, animal carcasses, large phytoplankton cells, and inorganic shells of Foraminifera and pteropods with adhered organic matter. These may also convey pollutants, such as pesticides, PCB's, and heavy metals, to the deep sea.

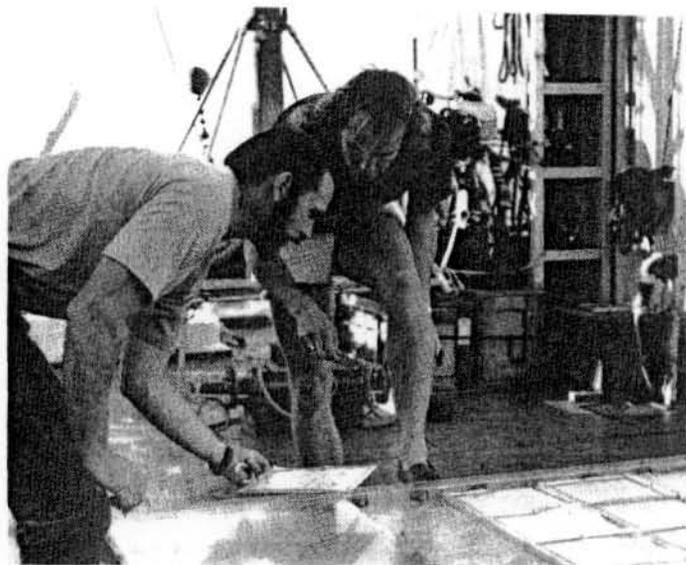
Although sediment traps have long been a desired device to collect this material, technical difficulties in their design and use have precluded success in the deep sea. A sediment trap designed by Peter Wiebe, Steve Boyd, and Cliff Winget was deployed to 2,050 meters early this year in the Tongue of the Ocean and seems to be pointing the way to success.

Specific identification of the particles collected by the W.H.O.I. trap has been difficult because most of the material accumulated during the two months the trap spent in the deep sea was extremely small. Observation from ALVIN before the trap was released to the surface compared favorably with what the trap filters retained after the trap was taken aboard LULU, although there was some loss of material at the air-sea interface. This indicates, however, that it is possible to collect detritus sinking through the water column to the deep sea.

The trap has a base one meter square and a height of 30 centimeters. Construction materials are lucite plastic and stainless steel. The interior of the trap is divided into chambers 25 centimeters square in order to collect 16 separate samples. Combusted glass filters in each chamber collect the detrital material. Two spring-powered sliding doors are cocked open during descent

and collection, then closed over the lower two centimeters of the trap during ascent to prevent turbulence from disturbing collected particles.

Although the trap is set and retrieved as a free-fall vehicle, the present design requires use of ALVIN to close the sliding doors and to remove a plankton gauge cap that covers the top of the trap to prevent large particulate matter from entering until the trap is in place. Improvements to the design currently under consideration include elimination of the need for the submersible and provision for greater stability at the air-sea interface and just below.



Peter Wiebe, left, and Kevin Ulmer examine filters after sediment trap is retrieved.

EXPLORERS CLUB, HORNOR SCHOLARS ARRIVE



Don Wadley and Laura Nielsen get acquainted with the Woods Hole dock amid preparations for Project FAMOUS. Laura is the 1974 recipient of the Jake Hornor Traineeship, an endowment fund established in 1970 by Associates President Townsend Hornor in memory of his brother. Laura will spend the summer in Dick Backus' lab working with surface trawl collections. Laura graduated from Bristol High School in Vermont in 1973 and has spent the winter working in a ski lodge and deciding to major in marine biology at Montclair State College, where she is enrolled for the fall. Don is here for the summer on a National Exploration Award from The Explorers Club, which is dedicated to the search for new knowledge of the earth and outer space. One of the Club's programs is the annual awarding of eight National Exploration Awards to students selected from thousands of applicants on the basis of their previous research work. Don is working with Cliff Winget on development of a mechanical manipulator under an ONR contract entitled "Investigations of Operator Performance and Force Feedback Variables in Undersea Manipulator." A senior in computer science at the University of Wisconsin, Don has been working independently with designs of manipulators tied to computers.

UNOLS MEETS IN WASHINGTON, LONG-RANGE PLANNING IS THEME; MAXWELL RETIRES AS CHAIRMAN

Seventeen university laboratory heads or their delegates attended the annual meeting of the University-National Oceanographic Laboratory System (UNOLS) in Washington May 15 and 16. There were also 46 participants from federal agencies and other academic institutions.

The main theme of the meeting was long-range planning for research ships and other facilities. In his keynote talk, Rear Admiral J. E. Snyder, Oceanographer of the Navy, announced plans for a new Navy research shipbuilding program to include replacement and modernization programs for existing ships and plans for a new small coastal vessel class. Although plans are well along, funding remains an uphill battle, Admiral Snyder said.

Art Maxwell retired as Chairman of UNOLS after having guided it through its creation and serving as its first chairman for three years. The new chairman is John Knauss, University of Rhode Island Provost for Marine Affairs, and George Shor, Associate Director of Scripps, is vice-chairman. The UNOLS office will remain at Woods Hole.

Amendments to the UNOLS charter were enacted to provide for associate memberships in addition to the regular memberships of the major oceanographic laboratories.

SUGGESTIONS WANTED FOR SHIP LIBRARIES

A note from the Ships' Libraries Committee:

Thanks to the generosity of Dave Ross and Egon Degens, authors of Hot Brines and Recent Heavy Metal Deposits in the Red Sea (Springer-Verlag, 1969), additional royalties of \$170 are being added to the Ships' Library Fund. The total contributed to our ships' libraries fund now amounts to some \$2,400. The best way we can show our gratitude is to spend the money. Are there any titles you would like purchased for the A-II, CHAIN, or KNORR? If so, please contact Dean Bumpus, ext. 204; Bill Dunkle, ext. 471 or 481; or Cecelia Fuglister, ext. 269.

VISITORS ————— VISITORS

Vasile Diaconu is spending six months in Woods Hole under the sponsorship of UNESCO on a fellowship given through the UN Institute of International Education. He is located in Smith 101H, ext. 248, and is working with Terry Joyce on the use of moored current meters, data processing, and internal waves. His home base is the Romanian Institute for Marine Research, Constanza, where he has been studying coastal processes in the Black Sea.

1969 ATLANTIS II CRUISE TO BLACK SEA RESULTS IN BOOK BY MANY WHOI AUTHORS

The scientific results of ATLANTIS II Cruise 49, March and April of 1969, are discussed in Memoir 20 of The American Association of Petroleum Geologists. The book, which was published last month, is *The Black Sea — Geology, Chemistry, and Biology*. It is edited by Egon Degens and Dave Ross.

Other W.H.O.I. authors in the 640-page book include Carl Bowin, Peter Brewer, K. M. Chan, Werner Deuser, Barrie Dale, Ken Emery, Al Erickson, Dave Hirst, John Hunt, Holger Jannasch, Dan Jipa, Carl Lorenzen, Joe MacIvaine, Frank Manheim, Ken Prada, Derek Spencer, Hans Truper, Jon Tuttle, Al Uchupi, Al Vine, and Dave Wall. (Some of these were visiting scientists or are now working at other laboratories.)

As a marginal sea and the world's largest anoxic basin, the Black Sea is intriguing to chemists, geologists, and biologists. There is also geologic interest in its location near the junctions of the Eurasian, African, and Arabian plates. During periods of lower sea level it became a freshwater lake, while the Red Sea, otherwise similar, became more saline.

Nearly all work in the Black Sea prior to this cruise had been done by Soviet oceanographers with more limited work by scientists from Turkey, Bulgaria, and Romania, which border on the Black Sea. (Some of this earlier work is included in the book.) The National Science Foundation funded the seven-week expedition which made detailed studies of the geochemistry, geology, geophysics, and biology of the entire Black Sea.

Students and scientists from Germany, Italy, India, Sweden, Turkey, the USSR, and Great Britain joined the Americans aboard the ATLANTIS II for the cruise. Editors Degens and Ross were co-chief scientists for the first leg, and Ross and Hunt shared the job on the second leg.

The book's preface explains, "Following the cruise, scientists from several institutions worldwide were invited to participate in the core studies. On August 3, 1970, a meeting was held at W.H.O.I. to discuss preliminary results of the project and formulate plans for the publication of this book. The final result is 45 papers written by 68 different authors from 10 countries. . ."

As a supplement to the book, Phyllis Laking prepared a Black Sea bibliography of more than 4,000 references.

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The *Newsletter* is published monthly by the Woods Hole Oceanographic Institution for its employees. Notes, notices, and any items of interest to the Oceanographic community are welcomed by Editor Vicky Briscoe, office in the Coop or phone 252. Deadline for mid-month publication is the first of the month.

NOTICES

A tour of the Institution, talks on work here, and dinner at MBL will be on the schedule June 26 for those attending the 10th Symposium on Naval Hydrodynamics June 24 to 28 in Boston.

Northern hemisphere weather maps for October 1973 were borrowed from Joe Chase by an unknown person, and they are urgently needed by the IWEX people. They are Ozalid sheets about two feet by two and a half feet. Anyone knowing of their whereabouts is asked to contact Joe Chase, ext. 204, or Mel Briscoe, ext. 276.

The bike path along the old railroad right-of-way, from where Locust Street becomes Woods Hole Road to the Steamship Authority parking lot in Woods Hole, was opened to riders May 31.

The annual meeting of the Woods Hole Community Association will be held the evening of June 19 in Community Hall. The building renovation and youth activities will be discussed, and officers will be elected.

Softball season starts about the first of July, and practices are underway for the W.H.O.I.-M.B.L. league. Team organizers are Caroline Harlow, ext. 271; Rich Jaffee, ext. 296; and Charlie Olson, ext. 306.

There is a team carrying the W.H.O.I. banner in the Falmouth Men's Softball League this year. Players from the Oceanographic are Peter Clay, John Halbert (coach), Steve Ferriera, Bill Kucharski, Phil McClung, and Jack Scharff. Other team members are Richard Blake, Eduardo Fernandez, Wayne Justasin, Michael Peter, Ralph Moniz, Richard Moniz, and Steve Worsley.

Whoever borrowed the set of ship's curves from Ted Spencer is asked to please return them to Smith 209.

The Library reports that about 300 people were contacted for the annual Book Hassle, and that about one book came back to the library for each contact (including a few the librarians didn't know were out...). Response from some borrowers is still awaited — Jane Fessenden suggests that everyone check his or her book holdings before the Great Move for books that might be returned to the library to lighten the load going to the new building.

On Saturday, June 29 at 8:00 p.m., a Square Dance will be held featuring a caller and live music at the Woods Hole Community Hall. Tickets are \$1.00 per person.

The Graded and Marine Personnel Committee has chosen the following officers: Bob Frazel, chairman; Martin Woodward, vice chairman; Denise Franklin Backus, recording secretary; and Allan Gordon, corresponding secretary.

Congratulations to the ALVIN group on the birth of their five baby gerbils (on Mother's Day yet)!

The Children's School of Science still has a few openings for the 1974 session. Classes for seven to 16-year-olds meet daily at the Woods Hole School for 90 minutes during a six-week term beginning July 1. Subjects taught by the professional staff range from Seashore Life and Field Natural History to Vertebrate Zoology, Limnology, and Experimental Biology Workshop. Tuition is \$50 per child, and parents help with administration and other responsibilities to keep costs down. Further information may be obtained by writing Box 522, Woods Hole, or phoning 548-3603.

A Message from the Institution Safety Office on

CARE WITH ELECTRICITY

The National Safety Council advises that:

- Only qualified electricians should work on electrical equipment or touch energized lines.
- Unless you are an electrician, do not attempt electrical repairs. Treat all electric wires as live wires. Do not touch any dangling wires that you may encounter, but report them to someone qualified for electrical work.
- Do not use portable electrical equipment if your hands are wet or if you are standing on wet ground.
- When a fuse blows, it indicates an overload or possibly a short. Tell someone qualified to deal with it.
- If you find sparking or smoking motors or other electrical equipment, turn off the power and report the condition at once.
- Extension cords are often the cause of electric shock. Examine them carefully for worn insulation and exposed strands of wire before you use them. Do not drag over sharp edges or run them across aisles where they can be damaged or cause someone to trip.
- Pull on the plug instead of yanking the cord — remember that voltages of even less than 110 can cause death.

NEW FACES



Teresa Bray
Part-time Lab. Asst.
Bio/Bill Watkins
Red. 1-12, ext. 333



Christine Canning
Secretary
G & G/Ken Emery
Bldg. 207, ext. 201



Vasile Diaconu
Guest Investigator
PO/Terry Joyce
Smith 101-H, ext. 217



Steve Ferreira
Services Assistant
Admin./Porter Crouse
Bldg. G-8, ext. 349



Richard Fralick
Guest Investigator
Biol./John Ryther
ESL/548-8377



Charles Greenawalt
Stockroom Clerk
Admin./Andy Wessling
Smith 114, ext. 282



William Grimes
Co-op Student
OE/Bob Walden
Blake 102, ext. 447



Richard Grosvenor
Graphics Technician
Admin./Don Souza
Smith 205, ext. 260



Mike Kelley
Research Assistant
PO/Bob Heinmiller
Smith S116C, ext. 284



Daniel Lewis
Security Guard
Admin./Andy Wessling
Smith Lobby, ext. 251



Alicja Mann
Part-time Res. Asst.
Bio/Bill Kerfoot
Red. 2-14, ext. 301



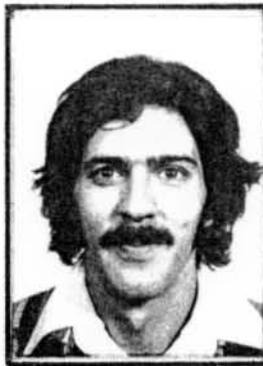
Susan Marks
Accounting Clerk
Admin./George Conway
Challenger, ext. 366



Sunil Mehta
Co-op Student
G & G/Sydney Knott
Big. 304, ext. 274



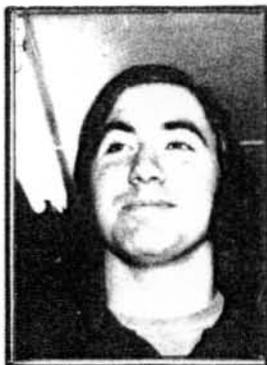
Mozart Moniz
Buyer
Admin./Art Henderson
Challenger, ext. 371



Joseph Puleo
Lab Assistant
OE/Mel Rosenfeld
Swift, ext. 409



Robert Rioux
Truck Driver
Admin./Andy Wessling
Blake 109E, ext. 411



Daniel Shaughnessy
Research Assistant
G & G/Ken Prada
Big. G-9, ext. 225



Laura Zmuda
Accounting Clerk
Admin./George Conway
Challenger, ext. 366

The idea of this sheet is to give everybody a chance to share ideas, efficient practices, and general information. If you have a bit of information that makes your life easier and that you think might be good for others to know about (or something you'd like us to find out about), call the Newsletter, extension 252, and let us know.

Bicycle Safety

Newsletter
June 1974

The bicycle is becoming more and more popular both as a form of transportation and of recreation. The new bicycle laws and regulations listed below became effective on December 23, 1973, and all riders should be familiar with them. Failure to observe the laws on the operation and equipment of bicycles may get you a ticket - a police officer who observes a bicycle violation may request the offender's name and address. The law says that whoever upon such request refuses to state his name or gives a false name and address shall be punished by a fine of not less than \$20 nor more than \$50.

Note: If the offender is under 16 years of age, the officer may give the tag to his parent or guardian.

BICYCLE OPERATION & EQUIPMENT RULES

Ride on right side of road, with traffic

Ride single file, except when passing.

Obey all traffic signals and signs.

Bicycle driver shall signal his intention to stop or turn.

Bike drivers cannot ride bikes on sidewalks adjacent to a store, church, or business establishment.

Bicycles may be ridden on sidewalks outside business areas.

Do not ride double on a bicycle.

Bicycles should be parked in a manner that will not obstruct vehicular or pedestrian traffic.

Bicycles driven at night shall have a white light in front and red light in rear.

Handlebars cannot be raised or operated so that operator's hands are above his shoulders while gripping them.

Operator of a bicycle shall report to the local police any accident involving either personal injury or property damage in excess of \$100.

Violations of these rules shall be punished by a fine of not more than \$20.