
NEWSLETTER

WOODS HOLE
OCEANOGRAPHIC INSTITUTION



JULY 1993

Students Cruise to the Gulf Stream

Twenty-four students in the MIT/WHOI Joint Program got acquainted with each other during what has become an annual cruise aboard a Sea Education Association (SEA) vessel. This year's cruise June 18-27 aboard the *Corwith Cramer* took the students from Woods Hole to Stellwagon Bank in Massachusetts Bay, around Cape Cod down to the edge of the Gulf Stream and back to Woods Hole. Despite a few cases of seasickness students reported they had a great time.



Joint Program students are all smiles as they prepare to depart June 18 for their annual get acquainted cruise aboard SEA's Corwith Cramer.

High School Teachers Spending Summers at WHOI Learning Science Firsthand

Four high school teachers from Southeastern Massachusetts are spending their summers in 1993 and 1994 at WHOI under a National Science Foundation fellowship program in ocean sciences and ocean engineering. The program is being coordinated by the Education Office.

George Hussey of Falmouth High School, a chemistry and earth sciences teacher, is working on paleoceanography in the

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Dave Ross Steps Down as WHOI Sea Grant Director

After 15 years as Director of the Institution's Sea Grant Program, Dave Ross has decided to step down. Senior Scientist Judith McDowell of the Biology Department will succeed Ross.

"It's been great fun, but it's time to move on and now is the appropriate time," Ross said in a recent interview. "The next Sea Grant proposal is due this fall, and the change in Director's will give my successor the opportunity to participate fully in that process."

Ross will remain active as a senior scientist in the Geology and Geophysics Department, continuing his research on marginal seas such as the Red Sea in the Middle East and working on issues related to the uses and opportunities in the oceans.

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New Travel Procedures Announced

The Continuous Improvement Council's process improvement team on travel and the Fix It Now committee recently reviewed the travel process, found areas of duplication, and simultaneously recommended a solution to improve service. As a result, a new procedure has been developed for approval of travel by members of scientific departments and centers that will be charged to sponsored research.

The Office of Sponsored Programs will no longer need to approve forms for travel against projects. The change should decrease the amount of time between completion of the authorization and airline ticket purchase or travel advance availability. The Travel Policy in the Personnel Practices and Procedures manual has not been changed.

The new procedure for travel authorization approvals is listed on page 5.

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New Team Seeks "Fundamental Improvements" in WHOI's Business Services

A new process improvement team has been chartered by the Continuous Improvement Council (CIC) to assist in the implementation of a new administrative software system.

As the Institution moves toward the purchase and installation of a new system, a series of studies, retreats and meetings of WHOI staff have defined the needs a new system should meet and set parameters for the kinds of systems to be brought in for testing.

As noted in one of the studies: "The Kaludis Consulting Group (KCG) has analyzed the ROSS System . . . and has advised . . . that a replacement administrative management system should be sought promptly. KCG also provided: 1) a set of general requirements that the new system should meet and 2) recommendations for areas of institutional change that are desirable to accompany, if not precede, a replacement system's implementation."

The new team will work in those "areas of institutional change" and will also make recommendations on how to implement the travel and procurement Process Improvement Teams' final recommendations, namely, to move to "paperless systems." (See June *Newsletter*.)

The team, the Improvement Implementation Team (dubbed the "II Team"), is charged with reviewing current processes and recommending "fundamental improvements in business services quickly with no increase in overhead."

The Newsletter is published monthly for employees, students and members of the Woods Hole Oceanographic Institution community. Copy deadline is the 25th of the month. Ideas for stories, photos, and items of interest to the community are welcome and should be sent to: Editor, Newsletter, News Office, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. Telephone 508-457-2000 ext. 2270 or 3340.

Editor: Shelley M. Lauzon
Staff Support: Kathleen Patterson

Larry Ladd, Associate Director for Institution Operations who appointed the team, explained at the first meeting: "We have made life complicated for ourselves — we have too many layers of review. With the right technology, machines can do the checking while people can do much more meaningful and interesting work. We want to remove the endless layers of review while preserving the appropriate, effective internal controls."

Members of the II Team include: Patricia Duffy, Accounting Operations Manager; Karen Lauritzen, Controller; Claire Reid, Department Administrator, P.O.; Sallie Riggs, Director of Communications; Melissa Roberts Weidman, Training and Development Administrator; Carl Wirsén, Research Specialist, Biology; and Dianna Zaia, Financial Analyst, Controller's Office. Ladd and Buddy Bruner of the KCG meet with the team. (As the *Newsletter* went to press, the group expected to add a few more members.)

The team has been asked to make its recommendations by November 1 to permit the Institution to meet a target of July 1, 1994 for installation and implementation of the new management support system.

Open House aboard NOAA Vessel *Rude* Scheduled August 7

Employees and their families are invited to attend an Open House aboard the National Oceanic and Atmospheric Administration's (NOAA) vessel *Rude* August 7 at the WHOI dock from 10 a.m. to 5 p.m. The event is co-sponsored by the Coalition for Buzzards Bay and the Institution and is free and open to the public.

The *Rude* was already at work recharting area waters when the luxury liner *Queen Elizabeth II* went aground last August off Cuttyhunk Island. The survey work is done during the spring, summer and fall and will continue until Buzzards Bay, Vineyard and Nantucket Sounds are re-charted.

Visitors will be shown how side scan sonar is being used to locate rocks, wrecks, shoals and other threats to navigation. The WHOI Sea Grant Program will distribute fact sheets on Boston Harbor, and the Coastal Research Center will present a display on red tide and sea level rise. The Coalition for Buzzards Bay will inform visitors on how they can support NOAA's efforts to improve the safety of navigation in local waters. Rain date is Sunday, August 8. For further information contact Mimi McConnell at the Coalition for Buzzards Bay at 759-1440.

Cashier's Office Notice

The Cashier's Office at Challenger is open from 8:30 a.m. to 4:00 p.m. daily for petty cash disbursements for amounts under \$50.00.

Lost Ring

A gold band with three diamond chips was lost somewhere at WHOI in mid-June by Judy White of the AOP&E Department in Bigelow. The ring was her mother's and has sentimental value. Contact Judy at ext. 2456 if you have any information.

Charles Adams Receives Cecil Green Award

Charles Francis Adams, former chairman of the board of WHOI and former chairman of the board of Raytheon Company, received the Cecil Green Award for outstanding contributions to oceanography at WHOI June 18 during the Annual Meetings of the Trustees and Corporation.

The award was established in 1991 by the WHOI Associates and is named for philanthropist and Texas Instruments founder Cecil H. Green, who has had a long association with the Institution. A crystal engraved with the WHOI logo and plaque were presented to Adams by Associates President Charles Dana. Green was unable to attend the event.

In presenting the award to Adams, Dana noted Adam's long relationship to WHOI and his father's friendship in the late 1920s with Henry Bigelow, WHOI's first Director. "As Secretary of the Navy, the elder Adams assisted the Institution through its formative years," Dana said. "Young Charles Adams was witness to many of these early discussions leading to his own involvement beginning 40 years ago. His commitment and encouragement to the Institution has continued unabated." Dana noted his family's relationship to the Adams family, dating back to the 1700s.

Charles Adams became a Member of the

Photo by Tom Kleindinst



Charles Adams (left) receives the Cecil Green Award from President of the Associates Charles Dana.

Corporation and a Trustee in 1954. He served as Chairman of the Board of Trustees from 1973 to 1985, when he was succeeded by current chairman Guy Nichols. Adams has also served on many Trustee and Corporation committees. A profile of Charles Adams entitled "Honorary Oceanographer" by Paul Ryan appeared in the Fall 1985 issue of *Oceanus* magazine (Volume 28 Number 3).

Cecil Green received the first Green award in 1991 and Scientist Emeritus Stanley Watson of the Biology Department received the award in 1992.

UMASS/Lowell Fall Semester Courses Offered at WHOI

It is time once again to consider your academic plans for the fall semester. The UMASS/Lowell program is offering its third year of courses onsite at WHOI. Courses are open to WHOI employees and to the general public on a space-available basis.

Classes will begin September 7. Mail and phone registration using a MasterCard or Visa can be done through August 20. Walk-in registration will be held on **August 16** at WHOI in **Clark 201**. Employees will be able to register from **12:00 - 6:00 p.m.**, with 4:00 to 6:00 pm registration available for non-employees. Because final course offerings are determined by registered class numbers, it is important that you sign up early. A brochure of detailed course descrip-

tions and registration information will be forwarded to all employees within the next several weeks. UMASS/Lowell will also be sending out a mailing to residents of the surrounding communities.

The initial course offerings for Fall 1993 are:

- "C" Programming
- Introduction to the UNIX Operating System
- Problem Solving with "C"
- Pre-Calculus Mathematics
- Introduction to Data Analysis and Modeling (Using Matlab)
- College Writing I
- Technical and Scientific Communication
- General Psychology
- Beginning Spanish I

- Quality Work Teams (this course will be held over three weekends)
- Accounting Principles II
- Project Management
- Total Quality Management
- Hazardous Waste Management
- Environmental Law and Regulations

Again, whether or not a course will be offered is determined by the number of registrants, so early registration is important

Employees should keep in mind that the Employee Assistance program will pay 100% of fees and tuition and \$50 towards books for a "for credit" course that is either job or career related. An application must be approved by the employee's supervi-

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Ross

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Ross has worn many hats during his career at WHOI. In addition to his research activities on the geology of marginal seas and in marine resources and marine policy issues, he has served as director of the Sea Grant Program since 1977 and was director of the Institution's Marine Policy Center from 1980 to 1985. He also served as Chairman of the Geology and Geophysics Department from 1985 to 1990.

Ross also has served on numerous national and international committees, including the U.S. State Department's Law of the Sea Advisory Board and the National Academy of Sciences Ocean Policy Committee and Ocean Studies Board. He served as chairman of the National Academy of Sciences International Ocean Science Policy Group from 1982 to 1989.

Ross cites the number of young people, both scientists and students, who have become involved in the Sea Grant program during his tenure as director as one of his major accomplishments. More than 550 publications and 28 theses were produced by program participants. Research activities were developed in red tide, coastal processes, and the Boston Harbor outfall project.

Ross is also proud of the joint sharing of Sea Grant projects with the Institution's Coastal Research Center and Marine Policy Center,

Missing Painting: If you know the whereabouts of this Franklin Lewis Gifford painting, which hung in the Directorate area of Clark at one time, please contact Bill Dunkle at the Document Library and Archive, McLean, ext. 2471.

Photo by Shelley Lauzon



Dave and Edith Ross

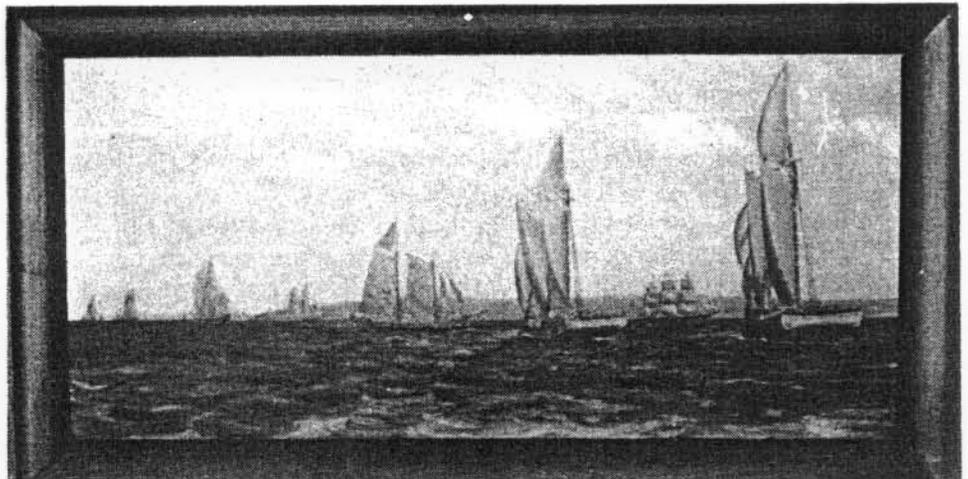
and the development of international projects with Portugal and other nations. He is also proud of the increased visibility the program has received in the local community through the "Oceans Alive" public lecture series, annual beach clean-ups and storm drain painting projects, participation in many local science fairs, conferences, television and radio broadcasts and publications, and through the marine advisory service. "We've established a very viable outreach and advisory service with the help of Tracey Crago, Sheri DeRosa and Graham Giese."

"A lot of time has been spent over

the years in working with Congress to get the national Sea Grant Program established and supported," Ross said. "For ten years Sea Grant was zero funded by the President and we had to fight in Congress each year to restore funds. We are finally established and remain basically a research component of the Institution. Our outreach efforts and advisory service are an additional benefit to the program and a logical outgrowth of the science."

The WHOI Sea Grant program has received an average of \$700,000 per year from the National Oceanic and Atmospheric Administration during the past 15 years under Ross's leadership, with an additional \$5 million in matching funds. There are 29 Sea Grant programs in coastal states, which includes the Great Lakes, in the United States. Massachusetts has two programs, one at MIT and one at WHOI. During the 1992-1994 funding cycle the WHOI Sea Grant program is supporting 15 research projects and several smaller new initiatives aimed at taking the first steps into promising new areas of research. Most of the projects address local and regional needs, while others have national or global implications.

Photo by Shelley Lauzon



New Travel Procedure

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● All travel forms will continue to be approved by the Department Administrator, Chairperson, Center Director, or the department/group manager with fiscal responsibility for the project. The Travel Office will return to the traveler any Travel Authorization which is charged to a sponsored research project and has not been approved by the appropriate person with fiscal responsibility.

● If the travel voucher is charged to a project different from the one approved on the authorization, the Department Administrator, Chairperson, or Center Director should attach a memo explaining the difference. If the memo is not included the Travel Office will call the department/center and request the memo.

● It will be the responsibility of the Department Administrator, Chairperson or Center Director to obtain their necessary approval from the funding agency prior to submitting the Travel Authorization, i.e., OPAS for NSF, letter from ONR Boston, approval in writing from other agencies as required. In addition, travel must be a line item in the budget (even if the amount is 0). If it is not, Sponsored Programs should be contacted to be sure the computer system will accept the costs. The Department Administrator, Chairperson or Center Director should also insure that the travel is appropriate in relation to WHOI policies.

● At this time, Travel Authorizations charged to a cost center should be sent directly to General Accounting (GA). All travel expense vouchers should be sent directly to the Travel Office, unless the voucher was charged to a cost center not previously approved by General Accounting, in which case it should go to GA and GA will then forward it to the Travel Office.

Execs Have New Name

Department Executive Assistants have recently had their title changed to Department Administrators.

Ship Notes

ATLANTIS II/ALVIN

R/V *Atlantis II* and DSV *Alvin* returned to Woods Hole July 23 for a week of battery service and other checks before departing July 29 on Leg I of Voyage #131 to the Pacific Ocean. The vessels will transit the Panama Canal in early August and are scheduled to arrive in Astoria, Oregon, August 24. Ten *Alvin* dives are planned off the Oregon coast before the vessels return to Astoria September 8.

KNORR

R/V *Knorr* departed St. George, Bermuda, July 7 to conduct experiments to better understand the fundamental physics governing the interaction between low frequency acoustic energy and the sea floor. Scientific activities included multiple deployment and recovery of bottom mounted acoustic arrays and autonomous data recording capsules, towing operations with the Deeply Towed Acoustics Geophysics System (DTAGS), and taking gravity cores and rock dredges. The ship was scheduled to return to St. George August 2.

Knorr is scheduled to depart St. George August 4 on Leg XVII of Voyage #138. Preliminary acoustical surveys of two sites on the east coast Continental Shelf using the Deeply Towed Acoustics Geophysics Systems (DTAG) are planned. *Knorr* is scheduled to return to Woods Hole August 10 after an 18-month absence.

OCEANUS

R/V *Oceanus* departed Woods Hole July 7 on Leg I of Voyage #259 to study the general circulation patterns of the North Atlantic and Labrador current. Several free-drifting subsurface RAFOS floats were deployed, as were four subsurface sound source moorings. The ship arrived in St. John's, Newfoundland, July 22.

Oceanus departed St. John's July

30 on Leg II of Voyage #259, continuing the science program begun on Leg I. Eight instrumented subsurface moorings will be deployed, with other scientific activities including the deployment of RAFOS floats and CTD stations. *Oceanus* will return to St. John's August 10.

ABE Completes First Successful Test

The Autonomous Benthic Explorer (ABE) completed its first successful autonomous test in Woods Hole harbor July 20. The vehicle is on the dock undergoing additional modifications.

Al Bradley, Barrie Walden and Dana Yoerger, all of the AOP&E Department, are principal investigators on the project, funded by the National Science Foundation.

In Memoriam

The Institution announces with great sorrow the death July 13 of Thomas Aldrich at his home in New York at age 89.

Aldrich began working at the Institution in 1966 and was instrumental in developing the Deep Submergence Vehicle *Alvin*, which had been delivered in 1964. He retired in 1983 but returned for six months as a temporary mechanic/draftsman with the *Alvin* group in 1989.

He is survived by two sons, Thomas and Ward, both of Chestnut Ridge, NY, and a daughter, Ann Zwick, of Oslo, Norway; nine grandchildren and two great-grandchildren. A funeral service was held July 16 in New York. Memorial donations may be made to the American Cancer Society, 1 Executive Boulevard, Suffern, NY 10901.



Kathy Gillis (left) of the Geology and Geophysics Department explains her research on ocean crustal structure and evolution to Trustees and Corporation Members during briefings June 18. Gillis is at McLean Lab.



Mark Kurz of the Marine Chemistry and Geochemistry Department (right) also had an opportunity to discuss his research on isotope geochemistry of mantle derived rocks and minerals with Trustees and Corporation Members in his lab at Clark.



Al Plueddemann (left) of the Physical Oceanography Department uses a poster display in Clark to explain his research on upper ocean processes. The briefings, which involved some 20 scientists, were part of Annual Meeting activities June 17 and 18.

WHOI Postpones Action on Proposed Ocean Science Discovery Center

WHOI announced July 13 that it will not proceed further, at this time, with the concept of developing an ocean science and technology discovery center.

The Institution has been giving careful consideration to the concept of an ocean science discovery center, especially in the context of its fundraising activities and current plans, according to Sallie K. Riggs, Director of Communications. "There is growing concern, at this time, about extending the Institution's staff and resources into major new projects, such as an IMAX theatre and interactive exhibits, that do not focus on its core mission of scientific research and graduate education," Riggs explained.

"Federal budgets for basic research and education are under increasing pressure and the need to ensure adequate funding for our scientists and students must be our principal concern," Riggs said.

The Institution was awarded a grant from the Massachusetts Executive Office of Economic Affairs last October to study the long-term financial viability and feasibility of funding an ocean science and technology discovery center. A consulting team has been hired to conduct the study.

The Institution appointed a Steering Committee to work with the staff in administering the feasibility study grant. "We appreciate the time and energy devoted by the Steering Committee members," Riggs noted. "And we especially appreciate the community support for this concept."

Telephone Tip for Visitor Calls

The Switchboard Operators/Receptionists and Security Guards need your help! They are receiving an increasing number of telephone calls for visitors and meeting/seminar participants and are having trouble locating them. Please forward a copy of all meetings/conferences to the Switchboard, with details that include date, time, location, participants' names, contact and/or message person at WHOI. If you only have one or two visitors a telephone call to the Switchboard Operator is sufficient.

The Annual WHOI Picnic is August 14 from 1:00 p.m. to 5:00 p.m. at the ballfield behind Clark Lab. Rain date is August 15.

New Faces



James Dunn
Security Guard
Facilities
Smith Lobby
Ext. 3280
D. McDonald



Beven Grant
Staff Assistant II
AOP&E
Blake 210
Ext. 2851
L. Flick



Audrey Rogerson
Postdoctoral Scholar
PO
Clark 304A
Ext. 2567
R. Samelson



David Schroeder
Engineering Assistant II
AOP&E
Bigelow G9
Ext. 2435
W. Witzell, Jr.



Susan Vaughan
Staff Assistant I
Purchasing
GEOSECS
Ext. 2664
M. Moniz

UMASS/Lowell Courses *continued*

sor and the Education Office prior to the start of the course. Applications for the reimbursement program will be available at the walk-in registration on August 16 or they may be obtained from the Education Office located in Clark 223. To enroll in a UMASS/Lowell course, an employee does not need to have prior degree status or be enrolled in a specific degree program.

The Employee Education Assistance program is open to all regular full, three-quarter and half-time employees. Payments are prorated for less than full-time status. Employees are also eligible for a 50% prepayment of an amount between \$150 and \$1,500. The maximum yearly amount payable under the program is \$4,000. For complete information on Employee Education Assistance, see "Employee Education Policy #5.6" in the Personnel Practices and Procedures manual. Additionally questions may be referred the Education Office at ext. 2200.

Cruise Insurance Notice

When planning a cruise for which Over-The-Side Insurance coverage for equipment is requested, please call the Facilities Office, ext. 2205, at least six weeks before departure to request the proper forms. A minimum of four weeks is needed to process the forms.

The insurance company needs sufficient time to obtain the best quote on your request. The Facilities Office warns that waiting too long will cost your project money.

Promotions

Cheryl Ann Butman (AOP&E)
to Associate Scientist w/Tenure (6/21/93)

Misha E. Clark (MC&G)
to Research Assistant II (5/13/93)

Jerome P. Dean (PO)
to Senior Research Specialist (5/17/93)

Scott J. Lehman (G&G)
to Associate Scientist (5/31/93)

Daniel McCorkle (G&G)
to Associate Scientist (5/31/93)

Gini McKinnon (Comm)
to Staff Assistant III (6/21/93)

Peter B. Mills (G&G)
to Research Assistant III (6/14/93)

Roger M. Samelson (PO)
to Associate Scientist (5/17/93)

Peter L. Tyack (Bio)
to Associate Scientist w/Tenure (5/17/93)

Summer Student Fellows arrive at WHOI

There are 25 Summer Student Fellows at WHOI, selected from a pool of 245 applicants. This year the National Science Foundation has awarded the Education Office a grant under their Research Experience for Undergraduates Program to support fellows from varied disciplines. The students, their colleges and donors are listed below.

| Name | College | Major | Fellowship | Donor |
|-----------------------|--|---------------------------------|--|--|
| Lihini I. Aluwihare | Mt. Holyoke College | Chemistry | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Michael S. Atkins | Univ. of Calif., SC | Marine Biology | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Elizabeth J. Bruce | University of Wash. | Electrical Engineer | Richard Vanstone | Gratia R. Montgomery |
| Sergey A. Cherkis | Upsala College | Mathematics | William D. Grant | Friends & Family |
| Rachel Collin | Brown University | Biology | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Wayne R. Dendal | SUNY, Plattsburgh | Chemistry/Env. Science | Research Experience for Undergraduates | NSF |
| Phaedra Doukakís | Univ. of North Carolina | Biology | Research Experience for Undergraduates | NSF |
| Steven R. Jayne | MIT | Earth & Planetary Science | Research Experience for Undergraduates | NSF |
| Brenda A. Jenson | Eckerd College | Marine Science | Research Experience for Undergraduates | NSF |
| Henriette A. Kuehne | Haverford College | Biochemistry | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Libby Lee | Lafayette College | Engineering | Seth Sprague | Seth Sprague Educational & Charitable Foundation |
| Kerry A. Mammone | Hamilton College | Geology | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Peter A. Mekhonoshin | Izkutsk Polytechnical Institution | Geology | WHOI | Institution Education Program |
| Sofia F. Morse | Univ. of Rhode Island | Marine Affairs | C. Russell Feldman | C. Russell Feldman Foundation |
| Nicole J. Poulton | Virginia Polytech Inst. & State University | Biology/Chemistry | Virginia Walker Smith | Mr. Homer P. Smith |
| Daoyuan Ren | Cooper Union | Electrical Engineering | Noel B. McLean | Mrs. Noel B. McLean |
| Wanda S. Robertson | Univ. of North Alabama | Education in Gen. Science | New England Farm & Garden | New England Farm & Garden/WHOI & Institution Education Program |
| Connie S. Russ | Univ. of Connecticut | Chemical Engineering/ German | Research Experience for Undergraduates | NSF |
| Sarah L. Russell | Pomona College | Physics | Research Experience for Undergraduates | NSF |
| Stephanie Scuff | University of Scranton | Chemistry | Research Experience for Undergraduates | NSF |
| Lee J. Silverman | Brown University | Geology | Research Experience for Undergraduates | NSF |
| Christopher M. Tebeau | Lawrence University | Biology | Arthur Vining Davis | Arthur Vining Davis Foundation |
| Rajan Vaidyanathan | Lafayette College | Science | Christopher Haebler Franz | Mrs. Haebler Franz |
| Trevor J. van Woerden | Albertson College | Chemistry/French | Research Experience for Undergraduates | NSF |
| Joseph D. Warren | Harvey Mudd College | Engineering | Research Experience for Undergraduates | NSF |

High School Teachers *continued from page 1*

lab of Bill Curry of the Geology and Geophysics Department. Biology teacher Valerie Bell of Nauset Regional High School is working in Larry Madin's lab in the Biology Department studying open ocean organisms.

George Goodfellow, a chemistry teacher at New Bedford High School, is working with Bob Schneider at the AMS facility studying accelerator mass spectrometer measurements in relation to global climate change. Pam Sterling of Plymouth South High School, a special needs

teacher in the areas of science and English, is working on coastal pollution/ecology with Judy McDowell and George Hampson of the Biology Department.

The program involves participation in an ongoing ocean sciences or ocean engineering research project during the summer of 1993 with a follow-up summer in 1994 of combined research and preparation of classroom curriculum supplements incorporating aspects of the research in which the teacher participated.