Being the end of the year, this is a good time to summarize what went on and to try to do some forecasting.

On the small victories side of the ledger, the first faculty merit pay increases in ten years were awarded. Several SOEST faculty are waiting in line still but the principle has been established. I have taken the position that those whose last two evaluation scores averaged to place them above the 86th percentile of SOEST’s faculty are to be considered for merit pay increases. The general rule is that anyone in that group whose salary is more than 5% below the upper bound of salary vs. years since PhD should be accorded a merit increase.

Now for the forecast. If the State bargains successfully for performance-based pay increases with UHPA, faculty salary increases averaging 4% might be higher or lower than that depending upon the individual’s performance evaluation score. This is actually fairer to those Schools and Colleges who haven’t extra money to pay for merit increases. The jury is still out on the results of the bargaining process, but it would be prudent to get your cv updated for our January evaluation, regardless of the outcome.

Our volume of grants and contracts went to $43 million this year for a total SOEST budget of $60 million. The absence of funding for MOANA WAVE makes these numbers even more remarkable. SOEST’s total budget is the largest at UH and 3 times that of UH Hilo.

Our new swath ship, KILO MOANA, will begin construction in February with a planned date for its full operation in the spring of 2002. Brian Taylor has done an outstanding job of shepherding the entire process with help from many of you. I predict KILO MOANA will become the ship of choice for ocean scientists working in the Pacific/Indian Oceans.

Of the 4 floors of POST that were lofted (left unfinished), the 4th floor is finally complete and the International Pacific Research Center has moved in. Of the remaining 3 floors, 2.5 are SOEST’s, meant to house Planetary Geosciences, HNEI and MarBEC. The work is moving ahead with unaccustomed alacrity and decisiveness so that I have hopes that those units can move in by this time next year. This forecast, while flavored by an optimism wholly unsupported by experience, may actually not be unrealistic. Place your bets.

As to educational matters, SOEST has experienced the decline in grad student populations common to our sister institutions. From a peak enrollment of 205 in 1993, our grad students numbered 174 this year. Oceanography and Ocean Resources Engineering suffered the steepest declines while Meteorology has actually had an increase during that period. I predict a steadily rising grad student population for the next few years, however, as our economy cools.

SOEST is regarded as not being undergraduate-friendly but on a campus where undergraduate enrollments have dropped 14.5% in the past 5 years, SOEST’s have risen by a whopping 40%, much more than any school or college at Manoa. About 60% of this increase comes about through the phenomenal growth in enrollments in our Global Environmental Science degree program. Our faculty, led by Fred Mackenzie, started this program. We raised all the money for it with nothing more than benign neglect from the Administration and it has gone from 3 to 40 majors in 3 years.

The other educational success story is the Meteorology Department. From a low of 27 graduate and undergraduate students in 1992, the Department enrolled 66 students in 2000. Not surprisingly, this increase coincides with the addition of exceptional new faculty to the Department. The news gets around.

Here is my conditional forecast. If Manoa commits to hiring faculty of the quality of SOEST’s, undergraduate enrollments not only will rise, UH Manoa will become the educational destination of choice for mainland and Asian/Pacific students.

Our newest research programs, the IPRC and MarBEC are doing well. IPRC has hired several first-rate faculty this year, including, most recently, Kevin Hamilton from GFDL/Princeton. Their budget is now being augmented by $2 million annually from NOAA and NASA and they will shortly enter a new phase of expansion. This is an exceptionally productive group of scientists, ably led by Jay McCready and Lorenz Magaard.

MarBEC has come through its second annual review with flying colors and has begun interviewing its first potential new faculty members. They will become members of the faculty of Ocean Resources and Engineering.

HNEI is launching forth on a major new program of alternative energy research focusing especially on fuel cells. They expect this program to grow quickly to $2 million per year and to involve industrial partners. Ultimately the federal government’s expectation is that the program will be shared 50/50 between government and industry.

The Geology/Geophysics Department lost some outstanding faculty to other positions this year. Dave Bercovici, Rodney Batiza and Jill Karsten, Johanna Resig and Steve Selig (leaving next semester) will be hard to replace. What is most encouraging is that interviewees for the new faculty positions are terrific so far. Change is never all bad and institutions that don't fare poorly.

My candidate for the discovery of the year, at least in our sciences, is sedimentary layering over substantial areas of Mars. I predict that NASA will get to Mars the next time because the possibility that these sediments are deposited from water will, if borne out, be one of the finds of the decade.

In any case, it has been a great year and I predict next year to be even better! Happy New Year to you and yours. 

Barry
UH Mānoa MOP Events

February 17th to 19th Symposium on the Maritime Archaeology and History of Hawai‘i and the Pacific. See pages 6 to 8 for details.

February 19th Presidents Day (Holiday)

March 1st Nomination Deadline for the Anna Toy Ng Memorial MOP Scholarship

March 2nd Abstract Deadline for Annual MOP Student Skill Project Symposium

March 3rd Annual Aquaculture Fieldtrip.

March 10th MarBEC Teachers’ Workshop on Marine Biotechnology at the Kamehameha Schools. For more information, contact Sara Peck at e-mail <peck@hawaii.edu>.

March 26th Prince Kuhio Day (Holiday)

March 26th to 30th UH Mānoa Spring Break

April 13th Good Friday (Holiday)

April 21st to 22nd 18th Annual MOP Symposium, at Leeward CC. MOP students from around the state are welcome.

May 2nd Last day of instruction at UH Mānoa

May 7th to 11th Final Examinations at UH Mānoa

May 13th Commencement at UH Mānoa

UH Hilo MOP Events

February 10th Snorkle trip to Kapoho 9-2pm

February 15th QUEST and REU applications due.

February 18th Kona Whale watching trip

March 2nd Pacific Tsunami Museum video and tour

March 13th Gyotaku fish printing workshop 4:30-6:00pm

March 17th to 18th Camping and Sailing with MOP

April 8th Pololu Valley Hike

May 2nd MOP end of semester awards party on the Four Winds 5-7pm

June 13th UHH-Marine Science Summer Session Starts!

A schedule of the Spring UH Hilo MOP events can also be found at their web site: <http://www.uhhmop.hawaii.edu/Springschedule2001.htm>.

Leeward CC MOP EVENTS

March 6th, 2001

Water Quality from the Mountains to the Sea

Dr. Eric DeCarlo, SOEST

LCC MOP meets the first Tuesday of every month. All meetings are in MS 102 (note the new room) from 12:30 to 1:20. For more information contact Dr. Frank Stanton at 455-0286 or at <fstanton@hawaii.edu>.
UPCOMING EVENTS AROUND HAWAI‘I

Earth Science Field Trips for Teachers
All field trips will begin with an introductory session on the UHM campus in the Pacific Ocean Science and Technology (POST) building. For more information, contact Leona Anthony at: e-mail <lanthony@soest.hawaii.edu>; phone 956-8763; or visit <http://www.soest.hawaii.edu/gg>.

Find the Old Waianae Caldera
March 4th, 8:30 a.m.
This field trip will be led by Scott Rowland, Asst. Researcher, Hawaii Institute of Geophysics and Planetology. Hiking boots recommended (or at least shoes; no slippers or sandals), sun protection, wind protection, swimwear if surf isn’t too high, pencil; one rather steep (but short and safe) hike. There will be no class lecture. Enrollment is limited to 30 people.

Pacific Islands Studies Seminar
February 8th, 2001
Terry Hunt, UHM Anthropology
Rethinking Rapa Nui (Easter Island)
Prehistory
Seminar begins at 7:00 p.m., and will be held at the Architecture Auditorium, Room 205. For more information, contact the UHM Pacific Islands Studies at 956-7700.

5th Annual Sanctuary Ocean Count
Saturday, February 24th, 2001
The Hawaiian Islands Humpback Whale National Marine Sanctuary is looking for volunteers to participate in its annual humpback whale count, which takes place on the islands of O‘ahu, Hawai‘i, and Kaua‘i. For more information, contact Kellie Chung at e-mail: <kellie.chung@hoaa.gov> or visit their website at <http://www.hihwnms@nos.noaa.gov>.

Hawai‘i State Science and Engineering Fair
April 2nd to 5th, 2001
The 44th HSSEF will be held at Blaisdell Center Exhibition Hall. Entries for the State Science Fair must be received by the State Science Fair Office by 3:00 p.m. on February 20th. For more information, contact Kay Aratani, HSSEF Director, phone: (808) 956-7930 or visit the Hawaii Academy of Science website at <http://www.hawaii.edu/acadsci>.

The McNerny Foundation will offer six $1000 scholarship awards at the next Hawaii State Science and Engineering Fair to college-bound 12th graders with outstanding research projects in Computer Science, Physics, Engineering, and Mathematics. In addition, the teacher advisers of the winners will receive a $1000 award to be used for classroom supplies or teaching aids.

Robert Ballard on “Deep Sea Exploration”
Friday, February 9th, 2001
UHM Campus Center Ballroom, 7:00 p.m.
Robert Ballard, the author of fifteen books, is one of the world’s foremost oceanographers; he is best known for his discovery of the Titanic and underwater explorations of the Bismarck, Lusitania, and Britannic.

Water Resources Research Center Seminars
Bill Wong, State Department of Health
March 15th, 2001
Water quality for drinking water

Eric DeCarlo, UHM Department of Oceanography
April 1st, 2001, Department of Health
Urbanization effects on water quality in Oahu’s watersheds

Khali Spencer, UHM Department of Geology & Geophysics
April 5th, 2001
Trace metals in Mānoa stream

Seminars are from 3:00 to 4:15 in MSB 114. For more information, contact the UHM Water Resources Research Center at 956-7847; e-mail <aly@soest.hawaii.edu> or visit their website at: <http://www.hawaii.edu/wrrc/spring01seminars.html>.

Historic Preservation Lecture Series
12:00 noon, Thursday, February 15th
Hans Van Tilburg,
Submerged Cultural Resources: More than Rust and Rotting Wood

Hawai‘i Aquaculture Conference
8:00 a.m. to 8:00 p.m., March 2nd, 2001
Sponsored by the Hawaii Aquaculture Association and being held at the Windward Community College, the conference will include discussions on the latest technologies from Hawai‘i’s researchers. Registration deadline is February 20th. For more information, contact the Hawaii Aquaculture Conference organizers at 1177 Alakea St., Room 400, Honolulu, HI, 96813. Phone: 587-0030; e-mail: <hawaiifish@msn.com>.

Hawai‘i Maritime Industry Day
Thursday, March 1st, 2001
Come to the Hawaii Convention Center, 1801 Kalakaua Ave, meet the people of our maritime community, and discuss the issues affecting our waters. For more information, visit the organizer’s website at: <http://www.aloha.net/~msohonoiday/index.htm>.
“REEF” Week
February 3rd to 10th
On Maui, help us celebrate establishment and official launch of the Reef Environmental Education Foundation (REEF) in Hawaii. REEF is a non-profit organization whose mission is to educate, enlist and enable divers and snorkelers to become active stewards in the conservation of reefs and other marine habitats through participation in a volunteer fish monitoring program.

Divers conduct surveys as part of their regular diving activities. Survey data are then returned to REEF, processed, and summary reports can be accessed on REEF’s website <http://www.reef.org>.

During the past year, the Hawai‘i Coral Reef Network, Project S.E.A.-Link, the Maui Community College Marine Option Program, and the Hawai‘i Department of Land and Natural Resources have been working with REEF in order to expand the program to Hawai‘i. This effort has culminated in a new set of REEF survey materials that includes a waterproof color id card of the fishes of Hawai‘i, underwater fish survey paper, and a Hawai‘i REEF survey form.

These materials, along with an introductory fish ID training curriculum, will be presented during REEF week. REEF Week will feature an opening ceremony on Saturday February 3rd, free fish identification seminars, and survey dive opportunities throughout the week.

The schedule of events can be found on our Events calendar at <http://www.reef.org/member/hawaii.htm>.

Request for Proposals
The Hawai‘i Coral Reef Initiative Research Program (administered by the Social Science Research Institute of the University of Hawai‘i) is issuing a call for proposals for its FY01-02 project cycle. About $775,000 should be available for research and monitoring activities. Proposals are due 4:00 p.m. HST on March 19th, 2001.

For a copy of the RFP, go to their website at <http://www.hawaii.edu/ssri/HCRI> or contact Risa Minato at phone: 956-7479; e-mail <HCRIResearchProgram@hawaii.rr.com>.

1. Assess the economic value of Hawai‘i’s various coral reef ecosystems.
2. Inventory and evaluate Hawai‘i’s marine protected areas.
3. Investigate Hawai‘i’s marine water quality standards and classifications.
4. Examine the linkage between land-based activities and coral reef ecosystems degradation in Hawai‘i.
5. Analyze historical variability of coral reef ecosystems in Hawai‘i.
6. Investigate techniques to remove alien and invasive algae threatening Hawai‘i’s coral reef ecosystems.
7. Enhance monitoring and assessment of Hawai‘i’s coral reef ecosystems.

An informational meeting will be held at 3:00 p.m. on February 6th, 2001 at Bishop Museum’s Atherton Halau.

Marine Protected Areas Web Site
The United States Department of Commerce and the Department of the Interior are pleased to announce the first version of a new web site on Marine Protected Areas (MPAs) of the United States. The web address is <http://mpa.gov>.

The web site is designed to provide information, facilitate partnerships, help identify key needs and challenges, and encourage public participation in the design, implementation and evaluation of marine protected areas.

Resource Management in California Website
The California Coordinated Resource Management and Planning is a community based process used for resource planning, problem solving, and management. The CRMP process emphasizes direct participation by everyone concerned with natural resource management in a given planning area.

The concept underlying CRMP is that coordinating resource management strategies will result in improved resource management and minimized conflicts among land users, landowners, governmental agencies, and interest groups.

For more information, visit their website at: <http://ceres.ca.gov/cacrmp>. The site also has links to the handbook, information on the process, existing watershed groups, and other resources.
More MOP Notes

We are sad to report the death of Dr. John Bardach on January 24th, 2001. He arrived in Hawai‘i to head up the Hawaii Institute of Marine Biology in 1971, just as MOP was getting started.

He initiated one of MOP’s core courses — “Man, the Ocean, and the Environment” — and inspired and supported many MOP students in their studies and careers. He was respected throughout the world for his knowledge and achievements in aquaculture and fisheries. His wisdom, his flair, and his twinkly eyes will be missed.

An obituary, written by Helen Altonn, is excellent and can be found at the Honolulu Star-Bulletin website at <http://www.honolulustarb Bulletin.com>. The obituary was run on January 27th, on page A-3.

Sherwood

The Anna Toy Ng Memorial MOP Scholarship

Established in 1987 by alumna Elizabeth Ng to honor her mother, this scholarship recognizes exemplary MOP students for their marine scholarship, ocean stewardship and contributions to MOP.

This year’s award will be $500, with the awardee’s name inscribed on a personal plaque as well as on a perpetual plaque which resides at the student’s home campus.

Nominees must be current MOP students in good standing (undergraduate or unclassified graduate). Nominators may be MOP students, alumni, MOP staff or MOP project mentors.

Nomination forms are available from the MOP Coordinator on your campus. Deadline for receipt of nominations at the UHM MOP office is March 1st, 2001.

MOP Fundraiser Updates

MOP would like to thank Bruce Carlson for his generous donation, which put him in the “Monk Seal” category (of donations between $100 and $500), and also thank Robin Quijano-Reuse, who was one of the student volunteers who helped us at the event.
Program
Saturday
February 17th, 2001

Session I
Submarines

10:05-10:30 The F-4 Disaster
Gerald L. Hofwolt
Executive Director, USS Bowfin Museum, O‘ahu, Hawai‘i

10:30-10:50 Break

10:50-11:15 Kimmel’s Dilemma
Burl Burlingame
Journalist/Historian, Honolulu Star Bulletin, Honolulu, Hawai‘i

11:15-11:40 Background on the H.L. Hunley
William Dudley
Director, Naval Historical Center, Washington D.C.

11:40-12:05 The Kaiser’s Sub off Angel’s Gate: In Search of the UB-88
Patrick Smith
Director of Operations, Coastal Maritime Archaeology Resources, Mar Vista, California

12:05-1:30 No Host Lunch

Session II
Maritime History in the Pacific

1:30-1:55 Mahele Documentation (1848-1853) of Hawaiian Maritime History
Victoria S. Creed
President, Waihona ‘Aina Corporation; Historian, Cultural Surveys Hawai‘i Incorporated, O‘ahu, Hawai‘i

1:55-2:20 Secrets of Stone Canoes and Ships: What can Petroglyphs Tell Us?
J. Mikilani Ho
Researcher/Historian, Rock Art Research and Preservation, O‘ahu, Hawai‘i

2:20-2:45 Transpacific Junks: Believe It or Not
Hans Van Tilburg
Instructor, Maritime Archaeology and History Program, University of Hawai‘i at Mānoa.

2:45-3:15 Break

3:15-3:40 Thor Heyerdahl, Henry Lee, and the Origins of the Kon Tiki Theory
Erika Ginsberg
Author/Researcher, Pangaea Expeditions, O‘ahu, Hawai‘i

3:40-4:05 Shipwrecks in Maui County: an Exercise in Resources
Richard Rogers
Researcher, Pilialoha Consultants, Haleiwa, Hawai‘i

4:05-4:30 Battlecruisers: Winston Churchill’s Often Misunderstood ”Splendid Cats."
Todd Aoki
Graduate Student, Maritime Archaeology and History Program, University of Hawai‘i at Mānoa

5:00-7:00 Reception on the deck of the Hawai‘i Maritime Center
Schedule

Sunday
February 18, 2001

Section III
Maritime History of the Pacific (part II)

9:00-9:25  Steamships in Hawai‘i
Donald J. Froning: Graduate Student, Program in Maritime Studies, East Carolina University, Greenville, North Carolina

9:25-9:50  The Hidden History of the African Diaspora in Hawai‘i
Fred McGhee: Professor, University of Texas, Austin, Texas; Hawai‘i Pacific University, Honolulu

Session III
Fieldwork in Maritime History and Archaeology

9:50-10:15  Charting the Changing Shoreline at West Loch of Pearl Harbor over 6,000 years: Evidence from the Prehistoric Archaeological Record
Thomas R. Wolfforth: Archaeologist, Scientific Consultant Services Incorporated, Hilo, Hawai‘i

10:15-10:45 Break

10:45-11:10  Unknown Fish Pond at Honokohau Ahupua‘a
Elisa Junqueira: Graduate Student, Maritime Archaeology and History Program, University of Hawai‘i at Hilo

11:10-11:35  Recent Research on USS Arizona: Perspectives and Directions
Kathy Billings: Superintendent, National Park Service, USS Arizona Memorial, Pearl Harbor, Hawai‘i

11:35-12:00  MCBH Kane‘ohe Bay: Submerged Resources Survey
Megan Moews: Graduate Student, Maritime Archaeology and History Program, University of Hawai‘i at Mānoa

12:00-1:30  No Host Lunch

1:30-1:55  Pohnpei Underwater Archaeology 2000: Results from the Field
Suzanne S. Finney: Graduate Student, Program in Maritime Studies, East Carolina University, Greenville, North Carolina; Department of Anthropology, University of Hawai‘i at Mānoa

1:55-2:20  The Black Warrior
Jack Hunter: Archaeologist/Historian, California Central Coast Maritime Museum Association (CCMMA), California Department of Transportation (Caltrans), San Luis Obispo, California

2:20-2:45  Proposal to Survey Koloa Landing
Alex Hazlett: Graduate Student, Maritime Archaeology and History Program, University of Hawai‘i at Mānoa

2:45-3:15 Break

3:15-3:40  Seafloor Imaging in the Archaeological Context
Presenter to be Announced
Oceanic Imaging Consultants, Honolulu, Hawai‘i

3:40-4:05  Catching the Comet: Avocational Support on a Site of Opportunity
Patrick Smith: Director of Operations, Coastal Maritime Archaeology Resources, Mar Vista, California

4:05-4:30  To be Announced

5:00-7:00  Reception on the deck of the Hawai‘i Maritime Center
Monday, February 19th, 2001

Field Trip — Submarine Tour
10:00 a.m. to 12:00 p.m.
Group limited to 25
Guided Tour of Nuclear Sub at Pearl Harbor Base.
Participants must furnish conference coordinator social
security number, name, and title by February 5th.

Hosted Dinner at Bowfin Museum
Open bar begins at 6:00 p.m., dinner begins at 7:00 p.m.
Group minimum 50 participants: participants must pay for
the dinner by February 10th.

Note: for the field trip and dinner, a minimum of 50
participants is required.

For further information, please contact the
University of Hawai‘i Maritime Archaeology and History Program
Department of Oceanography, University of Hawai‘i at Mānoa
1000 Pope Road MSB 206, Honolulu, Hawai‘i 96822 USA
Phone (808) 956-7633, fax (808) 956-9225
e-mail: <ocean@soest.hawaii.edu>

Conference Registration Form

Name: __________________________________________

Address: __________________________________________

Phone Number: ___________________________ E-mail: ___________________________

Conference Fees:

- Student ($20) []
- Speaker ($20) []
- Educator ($30) []
- Daily ($20) []
- General ($40) []

Other Fees:

- Reception on Friday, Feb. 17th ($10) []
- Reception on Saturday, Feb. 19th ($10) []
- Boat Tour/Bowfin Dinner
  ($25/symposium participants; $35 public)
  payment for this event due Feb. 12th

Amount Enclosed: ___________________________

Checks should be made payable to RCUH (Research Corporation of the University of Hawai‘i and mailed to
the Marine Option Program, 2525 Correa Road, HIG 215, Honolulu, HI 96822. Attention: Symposium 2001
Receptions include drinks and pupus (snacks); proceeds go to graduate student fund.
Dinner includes prime ribs/cargot buffet and open bar.

The Falls of Clyde, moored beside the Hawai‘i
Maritime Center in downtown Honolulu
Modern ships still wreck along Lanaʻi’s north shore.

The Department of Oceanography at the University of Hawaiʻi at Mānoa will offer a maritime archaeology techniques course during the summer of 2001. This is a hands-on experiential program, part of the Graduate Maritime Archaeology and History certificate. It includes lectures, field trips, and a nearshore/in-water training project in submerged cultural resources surveying techniques. Participants need to be motivated, able to travel, work hard, and live at a remote field site for an extended period of time. The course is open to undergraduates with consent of the instructor, and to the public via Outreach College. Enrollment is limited. Students do not need to be certified to SCUBA, most of the fieldwork will be snorkeling and wading.

The north shore on Lanaʻi Island is known as the resting place for multiple historic shipwrecks. To date there has been no serious cultural survey for these elements of Hawaiʻi’s maritime past. Not only have numerous sailing schooners and commercial steamers been cast on “Shipwreck Beach” accidentally, but the area also served local 19th century companies, like Inter Island Steam Navigation and Wilder Steam Navigation, as a dumping ground or “rotten row” for their retired ships.

Since then, inter-island shipping has virtually vanished. These wreck sites are the last traces of the industry, some of the last relics of plantation-era Hawaiʻi.

No one knows just how many ships were lost on that shoreline. The first task of historic preservationists and cultural resource managers is to create an inventory of the resource. There are no web pages, and there are very few documents in the archives. Teams must go out there and systematically record the sites themselves.

The fieldwork for this summer course will feature 10 days of camping and systematic surveying of selected shipwreck sites on Lanaʻi. Before going into the field, students will be introduced to all equipment and techniques in a classroom setting at the Mānoa campus. All participants will gain experience in surveying and recording cultural resources on land and in the water. (In-water participants must pass a swim test prior to field work.) Tools and methodologies include global positioning satellite systems (GPS), surveying tapes and slates and measured drawings, baseline trilateration, theodolite and EDM laser systems, video and 35mm cameras, and on-site radio communications.

Following the field work, students will return to the campus to assemble the data into a draft cultural resources report. The project ends with a student presentation of their findings, open to the public. In addition to the work specific to this summer’s project, students are also exposed, through field trips and lectures, to topics like cultural resource management, historic preservation, materials conservation, state and federal regulation, and more. This learning experience is a unique combination of fieldwork, lectures, special presentations, and hands-on experience, all focused on untouched maritime cultural resources. There is no course like it!

The instructor for the course is Hans Van Tilburg, MA. nautical archaeology and maritime history, East Carolina University. Currently he is a Ph.D. candidate in the Department of History at UH Mānoa, and staff member in charge of the Graduate Maritime Archaeology and History Program. He is assisted in the field by experienced crew chiefs and water safety personnel. The cost of the course is approximately $168/credit, plus a small institute fee. Affordable room and board options at East-West Center housing on UH campus are available for non-residents.

Applications now available. Application deadline is 15th April 2001, with notification of acceptance by 1 May. Applications submitted after the deadline will be considered on space-available basis.

For more information, e-mail Hans Van Tilburg at <hkvant@hawaii.edu> or visit the website at <http://www2.hawaii.edu/mop/mate2001.html>.

In the April edition of Seawords, we will be listing the courses that are going to be offered in the Summer and Fall in the UH system.
**SCHOLARSHIPS**

**American Fisheries Society Eugene Maughan Graduate Student Scholarships**

The Western Division is pleased to announce the applications for its graduate-level student scholarships are now being solicited. This scholarship program provides up to $3,000 annually in scholarships to graduate students in the general area of fisheries science with one to three awards to individual students.

Applicants must be a member of the American Fisheries Society or have submitted 2001 membership materials by the time of application. For more information, contact Robert Gresswell, Western Division Scholarship Award Committee, USGS-BRD FRESC, 3200 SW Jefferson Way, Corvallis, OR 97331; e-mail <Robert_Gresswell@usgs.gov>

**Ocean Research Experiences for Undergraduates (REU) - Hawai‘i**

Working full-time for ten weeks, June through August, students will obtain hands-on experience in marine science and work with faculty members on significant problems in biological, physical, chemical, and geological oceanography. Students will take part in field or laboratory projects, develop your own research plan, learn to write a scientific research report, and present your project results at a student research symposium.

Students will receive a stipend of $2,500, plus housing, partial board and round-trip airfare to O‘ahu, Hawaii (from the mainland U.S. or U.S.-affiliated Pacific Islands). For more information, visit their web site at [www.soest.hawaii.edu/oceanography/reu.html](http://www.soest.hawaii.edu/oceanography/reu.html) or e-mail <ocean@soest.hawaii.edu>.

**5-Star Grant Program 2001 Request for Proposals**

The National Association of Counties, the National Fish and Wildlife Foundation, and the Wildlife Habitat Council, in cooperation with the U.S. Environmental Protection Agency (EPA), the National Marine Fisheries Service and other sponsors, are pleased to announce the Five-Star Restoration Challenge Grant Program. The Five-Star Restoration Program, an outgrowth of the Administration’s Clean Water Action Plan, provides modest financial assistance on a competitive basis to support community-based wetland and riparian restoration projects that build diverse partnerships and foster local natural resource stewardship. In 2000, the second year of the program, 59 projects were awarded grants of on average $10,000 out of approximately 200 applications received. Applicants should complete the application form [http://nfwf.org/5star-rfp.htm](http://nfwf.org/5star-rfp.htm), including project narrative and budget request. Applications must be postmarked by March 2, 2001.

**American Meteorological Society Undergraduate Scholarships**

The AMS/Industry Undergraduate Scholarships are designed to encourage outstanding undergraduate students to pursue careers in the atmospheric and related oceanic and hydrologic sciences. The scholarships are available to students who will be juniors in the Fall of 2001. Prospective candidates from the fields of atmospheric sciences, oceanography, hydrology, chemistry, computer sciences, mathematics, engineering, and physics who intend to pursue a career in the atmospheric, oceanic, and hydrologic sciences are encouraged to apply. Applicant must be entering his or her junior year in the Fall of 2001 to be eligible to apply. Applications are available at [http://www.ametsoc.org/amsedu/scholSel.html](http://www.ametsoc.org/amsedu/scholSel.html). You can also request an application by mailing a self-addressed, stamped envelope to: American Meteorological Society, Attn: Fellowship/Scholarship Program, 45 Beacon St., Boston, MA 02108-3693. Deadline for application is February 23, 2001.

**The Hawaii Academy of Sciences is in need of judges for the annual state science and engineering fair. The day of judgement is April 3, with previewing on April 2. If you can help, contact Kay Aratani a phone: 956-7930 or e-mail: karatani@hawaii.edu.**

**INTERNSHIPS**

**Oceanic Institute Internship**

Opportunities in research programs and other capacities. To apply, send proposal letter indicating program preference, available time, and if it is for school credit. Send your proposal to The Oceanic Institute, Attention Gary Karr, Training & Education Coordinator, Makapuu Point, 41-202 Kalanianaole Hwy, Waimanalo, HI 96795-1820; fax: 259-5971; e-mail: <gkarr@teligentemail.com>. For more information, visit the Oceanic Institute website at [http://www.oceanicinstitute.org](http://www.oceanicinstitute.org).

**The Friends of He‘eia State Park**

Interns are needed to assist the Education Coordinator with the development and implementation of interpretative programs in the environmental sciences. Additionally, interns would teach classes in marine biology, ethnoBotany, earth science, and Hawaiian studies to school age children. Possible independent credit hours and/or small stipend available. Contact Carole at 247-3156 for more information.

**United Fishing Agency**

United Fishing Agency is offering internship opportunities for students interested in fish wholesaling, marketing, etc. For more information contact Brooks Takenaka, phone: 536-2148; e-mail <btakenaka@netscape.net>.

**Isles of Shoals Steamship Company Marine Biology Summer Internship**

The Isles of Shoals Steamship Company’s Ocean Expedition Whale Watch is designed to focus the public’s attention not only on the large mammals that inhabit the Gulf of Maine, but the “whole picture” — the importance of the ocean as an ecosystem and the connectedness of the organisms that inhabit it.

With that philosophy in mind, we make our ocean expedition as fun and educational as possible through the use of hands-on activities, exhibits, demonstrations, an informative narration, and interaction between passengers and crew members.

Intern will work closely with the naturalists aboard our ocean expedition whale watch, learning about our local marine environment, identifying marine species, and interacting with our passengers. Time will be spent as a paid crew member aboard one of our vessels, and other time will be spent learning about your chosen concentration in-depth. For interns who are inclined toward strengthening their public speaking skills, there is the possibility to train as a fill-in naturalist or tour guide. The internship will culminate in a special project to be completed by each intern. Training will be provided in all areas. For more information, visit the website at [http://www.islesofshoals.com/intern.html](http://www.islesofshoals.com/intern.html) or e-mail them at <info@islesofshoals.com>.

Applications are due March 7th, 2001.

**EMPLOYMENT**

**Aquaculturist**

Kahuku Shrimp Company seeks to employ a full-time, entry-level aquaculturist. Starting pay is $18,000 per year plus benefits. For more information, contact Bruce Smith at 293-0157.

**Maui Ocean Center Education Manager**

Full-time, year-round position with benefits. Seeking a highly motivated and enthusiastic individual with a high level of passion for and knowledge of the ocean. Position requires strong management skills to supervise Ocean Naturalist, Volunteers, School Group and Membership Programs, as well as the maintenance and creation of new exhibits.

Individual must have excellent program development, administrative, interpretive, and communication skills. Candidates must be well-versed in marine science/biology, Hawai‘i’s marine ecosystem and Hawaiian history and culture. Please no phone calls. Fax resume to (808) 270-7070. Maui Ocean Center, 192 Maalaea Road, Wailuku, HI 96793.
CONFERENCES & CALLS FOR PAPERS

Pacific Symposium for Science and Sustainability
February 9th to 11th, 2001 - UH Mānoa
The Symposium, to be held at the East-West Center in Honolulu, provides a unique educational experience by bringing high school students from Hawaii and other Pacific Islands together to explore their common interest in the sciences. Expenses for the entire weekend will be paid for those students and teachers selected to participate in the Symposium. For more information, visit their web page at: <http://www.hawaii.edu/acadsci/phs3/phs3.html>.

Maritime Archaeology and History of Hawai‘i and the Pacific Symposium
February 17th to 19th, 2001
The 13th annual MAH Symposium will be held on the President’s Day weekend at the Hawai‘i Maritime Center. See pages 6 to 9 of this issue of Seawords for more information.

The Oceanography Society Biennial Meeting
April 3rd to 5th, 2001 — Miami, Florida
Conference will focus on interdisciplinary topics and research enabled through advanced technology. To be held in conjunction with the Oceanography International Americas conference (see below). For information, visit their website at <http://www.tos.org>.

Oceanography International Americas
April 3rd to 5th, 2001 — Miami, Florida
Oceanography International Americas is the new biennial event that brings together industry, scientific, and government professionals involved in marine science and ocean technology from throughout the Americas. For information, visit <http://www.oiamericas.com> or e-mail <oiamericas@spearhead.co.uk>.

Marine Science and Technology
April 24th to 27th, 2001 — Pontevedra, Spain
This multi-disciplinary international congress will bring together scientists, technologists and other specialists related to the marine environment. For more information, contact the organizers at <fomar@fomar.org> or visit their web page at: <http://www.fomar.org>.

Our World Underwater
April 27th to 29th, 2001 - Chicago, IL
The 31st annual Our World Underwater conference will again feature in-depth workshops. Come see the latest in equipment, dive travel and training and come meet with your local dive retailers. Their web site is <http://www.ourworldunderwater.com>.

Offshore Technology Conference
April 30th to May 3rd, 2001 - Houston, TX
The conference will provide industry professionals with new, innovative ways of working. For more information, e-mail: <tech-prog@otcnet.org> or mail P.O. Box 833868, Richardson, Texas, 75083-3868. Their web site is <http://www.otcnet.org>.

PACON 2001
July 8th to 11th, 2001 - Burlingame, CA
This conference will focus on environmental technologies for sustainable maritime development. Abstracts are due February 15th, 2001. For more information, visit their website at <http://www.hawaii.edu/pacon>.

Coastal Zone 2001
July 15th to 19th, 2001 — Cleveland, OH
Conference will center around the most pressing challenges of today and tomorrow, including challenges associated with expanding ports, and concerns with the production, transportation, and use of energy resources. For more information, visit the conference website at <http://www.csc.noaa.gov/cz2001>.

NMEA 2001: A Water Odyssey
July 17th to 21st, 2001 — Victoria, B.C., Canada
The National Marine Educators Association conference will look at our relationship with water through time and history, traditions and cultures, art and humanities, and science. For more information, contact Mike Spranger at e-mail <MSSpranger@gateway.net>.

Hawai‘i Conservation Conference
July 29th to August 1st, 2001 — UH Hilo
The 15th annual meeting of the Society for Conservation Biology will focus on conservation challenges facing islands that are sometimes unique and sometimes similar to mainland systems. Field trips, a welcoming reception, and a symposium are also planned. Abstracts are due by January 31st, 2001. Given the limited space for oral presentations, the organizers strongly encourage poster presentations. For more information visit the web site at <http://www.uhh.hawaii.edu/~scb>.

Water Security for the 21st Century
August 13th to 16th, 2001 — Stockholm, Sweden
Convened by the Stockholm International Water Institute, the conference will help search for effective, long-term water resources management. Abstracts are due February 15th, 2001. For more information, contact the Symposium Secretariat at phone: +46 8 522 139 75 and e-mail: <sympos@siwi.org>, or visit their website at <http://www.siwi.org>.

Oceans 2001: An Odyssey of Ocean Exploration
November 5th to 8th, 2001 — Honolulu, HI
Conference and exhibition will be held at the Hilton Hawaiian Village. Authors are invited to submit papers dealing with new technology which describe advances in science and engineering in the ocean environment or address ocean economic, policy or education issues. Abstracts are due March 30th, 2001. For more information, contact the organizers at e-mail: <oceans@jspargo.com> or visit their website at <http://www.Oceans2001.com>. A student poster exhibit is also being organized — for more information, contact Sherwood Maynard at the UH Mānoa MOP office.

Phytoplankton Productivity
March 18th to 22nd, 2002 — Bangor, U.K.
An appreciation of 50 years of the study of production in oceans and lakes, this conference will comprise oral sessions and posters. There will be a variety of keynote talks given by leaders in their field which will summarise the development, present state and future of major topics in both freshwater and marine plankton productivity. The keynote speakers are preparing chapters for a book which will be printed in time for the Conference, and all participants will receive a free copy as part of the Conference papers. For more information, please contact the organizers at e-mail: <conf2002@bangor.ac.uk> or visit the conference web site at <http://plankton-productivity.org>.
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Seawords is the newsletter of the Marine Option Program at the University of Hawai‘i. It is published monthly (more or less).

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If you would like to subscribe to our bi-weekly electronic calendar, please e-mail us at <seawords@hawaii.edu>.

Suggestions and submissions are welcome. Submissions can include articles, photographs, art work, or pretty much anything that would be of interest to the marine community in Hawai‘i and around the world.

Our web pages are located at <http://www2.hawaii.edu/mop>.

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