



The HMSC Newsletter



**OREGON STATE
UNIVERSITY**

March 2002

Pamela Rogers, Editor



Steep banks of Lago Loretto

Schabetsberger Studies Equatorial Lakes in Africa

Recently Robert Schabetsberger, a researcher working with Ric Brodeur in NMFS, returned from a self-designed expedition to profile two previously unstudied tropical freshwater lakes in Guinea. The two lakes, Lago Loretto and Lago Biao, are on Bioko Island in the Gulf of Guinea, inside calderas that have protected them from human intrusions. He first heard about this area from a group working on primate studies in the same region and was able to piggyback with them on getting the required permits and affiliation with a local university. Hiking and climbing into this remote and difficult region was only one of many trials he had to overcome. Once he was able to conquer local superstition about the lakes, he was able to procure a guide. He took four local

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university students on the expedition and they measured depth, oxygen, conductivity, temperature, pH, and collected zooplankton samples throughout the water column. In one instance he had to don a wet suit to clear away razor-sharp grass that completely surrounded the rim of the lake so that their rubber raft could get into the lake without being ripped to shreds. The amazing thing is that this expedition was done as part of his vacation!

Adventuring and climbing around the world is a habit with Robert. Raised in a small village in Austria between Vienna and Salzburg, he was expected to become a baker like his father. Instead, he developed a love for marine biology, what he calls "eco-romanticism" and earned his master's and Ph.D. at Universitat Salzburg in limnology and herpetology. His dissertation was on the role of amphibians as the top of the food chain in alpine lakes and their feeding ecology. Along the way he started as a camera assistant (basically carrying heavy things) for the local Austrian TV station and learned about making short documentaries by observation. He has filmed and prepared a number of two-five minute science segments that have been aired in Salzburg and around Austria. He is successful enough with his film work to finance about half of his exotic travels, such as climbing the highest peak on South Georgia Island in the South Atlantic, and other peaks in East Africa and Papua New Guinea. He met his girlfriend, Gabriele Drozdowski, a student of the University of Vienna, on an expedition to Papua New Guinea and she joined him as a scientific partner for the Bioko expedition, handling all the logistical work in Austria before the trip.

Robert has been in the States off and on for about two and a half years and worked with Ric Brodeur while he was still in Seattle, moving to Newport with Ric when he was transferred. Perhaps Robert might be persuaded to do a seminar or two on his travels and research.



Marlene Bellman is Jones Award Recipient for 2002

The Walter G. Jones Fisheries Development Award is designed to encourage graduate work in subjects which contribute to fisheries development and is for \$1,500 for 2002.

Marlene Bellman, master's degree student under Dr. Scott Heppell of Fisheries and Wildlife, is this year's recipient. Marlene is serving as the 2001 Oregon Resource Fellow, awarded by Oregon Sea Grant, and collaborating with the Pacific Marine Conservation Council and Ecotrust on a joint project to develop a set of analytical tools for addressing the restructuring of the Pacific coast groundfish fleet in accordance with the Pacific Fishery Management Council's strategic plan. This project aims to help bring harvest capacity in line with resource productivity, keeping in mind the maintenance of diverse fleets and ports. The analysis incorporates the community perspective whose livelihoods depend upon fisheries resources, as well as initial approaches to the future sustainability of the fishery. This research provides valuable insights for developing a sustainable fishery balanced by a geographical combination of groundfish stocks, fishery capacity, and fishing industry infra-

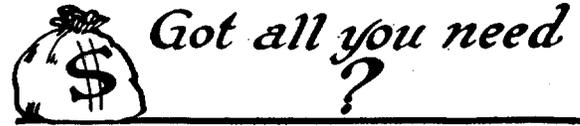
Mark Your Calendars!
HMSC Blood Drive
March 14, 10 a.m. - 3:45 p.m.

structure. The results of this study will be presented to the PFMC and should be available in the fall of 2002.

Concurrently, Marlene is developing a research proposal for her master's thesis, which will focus on how recently implemented groundfish regulations have resulted in changes in fishing behavior related to gear configurations and restrictions, customary fishing grounds and associated effects on Essential Fish Habitat. In the year 2000, the Pacific Fishery Management Council adopted a trawl footrope size limitation of an 8-inch diameter and a ban of the associated chafing gear used for landing nearshore and shelf rockfish, as well as several flatfish species. This regulatory action was intended to eliminate trawl fishing from high rocky habitat to protect depleted rockfish stocks. However, the monitoring and evaluation of this regulatory action is still unresolved.

Using GIS to analyze spatial patterns in historical and current logbook data from the commercial trawl fishery, Bellman's research intends to explore whether there has been a displacement of trawling such that shelf areas historically subject to fishing pressure are now being avoided. One goal of the study is to locate and define several target areas where, due to footrope limitation, significant changes in trawl impacts have occurred, and to determine whether there are changes in benthic structure associated with increased or decreased trawling. Methods to conduct portions of this study may include use of a remotely operated vehicle, a submersible, and/or underwater videography of footrope operation in contrasting habitat types.

This research would develop methods for utilizing spatial trawl logbook data and support efforts to implement an electronic logbook system, evaluate whether mandatory trawl gear modifications are effective in achieving conservation objectives for essential fish habitat, and act as a case study for a similar displacement of fishing effort proposed through the implementation of marine reserves.



2002 Scholarships and Awards Available

The application guidelines and award amounts for the 2002-2003 academic year have been posted on the HMSC web page (hmsc.orst.edu/stuinfo.html). The Markham Research Award applications are due May 1 and all the others are due May 15. The following awards are available this year:

Holt Marine Education Fund - DUE MAY 15

- For undergraduate or graduate students pursuing marine science studies
- Must have definite educational output for a course, public education, or extension and be marine related
- Application by faculty advisor, one-page project description and budget (maximum \$6,000)
- Must be used within the year

Markham Research Awards - DUE MAY 1

- For graduate students or post-doctoral researchers
- Based on scientific merit of proposal; preference given to research utilizing HMSC or Astoria Seafood Lab facilities - financial need is also considered
- Funds can be used for wages, service and supplies, equipment, books, living stipend and library services
- Application must have no longer than a 3-4 page research proposal and one-page budget for maximum of \$10,000 (see details on full announcement)

Reynolds Scholarship - DUE MAY 15

- For graduate students in residence at the HMSC
- Scholarship is for \$600, paid in three equal term installments, beginning fall term
- Application must have letter of support from major professor and one-page research summary

Robinson Fellowship - DUE MAY 15

- For graduate students in shellfish aquaculture research at the HMSC
- Award is for \$1,200
- Application must have one or two-page application letter, with budget, letter of recommendation by major professor and statement of current financial support
- Must be used within one year of award, but recipient may reapply to be funded for two (master's student) or three years (doctoral student)

Wick Marine Fisheries Award - NO AWARD TO BE GIVEN IN 2002

Please see the full announcement on the web page or obtain a copy from the Director's Office (7-0212). Applicants must follow application guidelines rigorously, especially in length of proposal and information required. Please call the Director's office for further questions.



Seagrass Investigator Appreciates "Urban" Newport

Jim Kaldy, a post-doc with the National Health and Environmental Effects Research Lab (NHEERL) of EPA, has been in Newport for one year. NHEERL is the agency's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystem integrity. Coming from five years at Port Aransas and three years in College Station, Texas, he truly appreciates the benefits of Newport. Port Aransas is four hours

away from anywhere, and College Station temperatures range as high as 112° in the shade. Port Aransas is one-quarter the size of Newport and Jim's research sites were four hours away from the lab. Having the ability to simply walk out to research sites has been a wonderful experience. Jim is a native of Connecticut and also appreciates the temperature and natural environment of the Northwest.

Jim is a seagrass biologist who earned his bachelor's degree at Long Island University, South Hampton; his master's in plant biology at the University of New Hampshire; and his Ph.D. at the University of Texas at Austin. His dissertation was on the production and reproductive ecology of turtle grass in Laguna Madre. Seagrass plays an important but understudied role in estuaries, providing a three-dimensional habitat for amphipods, copepods, crabs and other species, as well as providing a surface for epiphytes to settle on. It also plays a role in carbon fixing and the biogeochemistry of sediments and the water column. However, there has been a great lack of data about seagrasses in Pacific Northwest estuaries that Jim is working to overcome. Seagrass biology really came into existence only in the 1970s and is a relatively new specialty.

Back in 1989 Jim was at the HMSC as a summer intern for Bruce Menge and remarked on all the changes that occurred to the Center while he was away. He is an avid motorcyclist (red Kawasaki Vulcan), has four cats, spends time fixing up his house, and in his spare times he enjoys photography, kayaking and skiing. Jim and Cheryl Brown (another EPA post-doc) will be married in August.





Dawn Grafe of USFWS works with students

Visitor Center Sponsors Student Ocean Conference

On Friday, February 22, the HMSC Visitor Center, in partnership with the National Geographic Society and Coastal America, hosted a Student Ocean Conference. Fifty-three students from seven Oregon high schools and one middle school attended the all-day conference. The primary goal of the conference was to inspire young people to think critically about some of the main environmental issues facing our nation.

Friday's conference focused on marine reserves. Robert Bailey, Ocean Program Administrator with the Oregon Department of Land Conservation and Development, and Marjorie Ernst, Environmental Protection Specialist with the NOAA National Marine Protected Areas program, gave the students some background information on marine reserves and what the state of Oregon is currently doing to establish marine protected areas.

Working with maps of hypothetical areas, students worked in small groups to decide the best approach to protecting those areas. They considered the resident population of animals, how best to reconcile the needs of the fishing community, the scientific community, and what potentially the area could offer as a reserve.

The students made their decisions as to which areas should be designated a reserve or left open to fishing and other uses. Each team then

presented their findings to the entire group. Students were asked by the audience to defend why their area should be made into a reserve and to show some activities they would or would not allow in their protected area, such as commercial or sport fishing. In the audience were a representative from Coastal America, BLM, Army Corps of Engineers and US Fish and Wildlife Service.

Coastal America is a consortium of federal agencies. In 1997, the Hatfield Marine Science Visitor Center was selected by the Coastal America program to be a Regional Coastal Ecosystem Learning Center (CELC). These Centers are part of a program to extend Coastal America's federal agency partnership to qualified facilities that educate the public about coastal environments. By designating CELCs around the nation, an expanded information network for the general public is created, while encouraging cooperation between federal agencies and non-federal facilities. HMSC is one of three western CELCs, including Seattle Aquarium and Monterey Bay Aquarium.



Progress Report on Soup Kitchen

The whole HMSC has gotten behind the Soup Kitchen with lots of volunteer chefs and bakers, and of course, diners. For the first four Tuesdays we have raised a total of \$336.22, with additional separate donations of \$50, for a grand total of \$386.22. The Lincoln County Food Share can buy about six pounds of food for every dollar, so that our February donation will enable them to buy 2,316 pounds of food. This is tremendously important because Oregon is the hardest-hit state economy and experiencing the heaviest draw on food share programs.

Our February chefs have been Leah Feinberg, Tracy Shaw, Dann Cutter, Lynn Wright, Keith Matteson, Jessica Waddell, Carol DeLancey, Linda Brodeur, Anne Walsleben, Faith Cole and Dawn Grafe. There have been a number of requests for recipes, so if any of you are willing

to share, please turn the recipe into the Director's office and we'll put together an informal "HMSC Cookbook."

We will be continuing the Soup Kitchen into March, as long as we have volunteers to bring in food. The sign-up sheet is in the Director's Office and you can choose to bring one pot or two pots of soup (we go through at least two medium-sized pots a week) or other treat. One of the side benefits has been the great camaraderie around the table as you get to meet people from all around the Center. Thank you for all your support!



Dawn Grafe

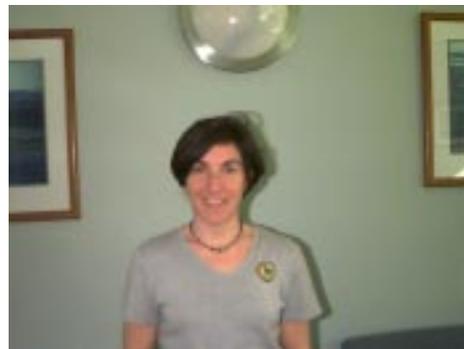
Dawn Grafe and Liz Kelley Settle into USFWS Positions

Dawn (Harris) Grafe joined the USFWS Oregon Coastal Refuges field office last May as the Refuge Operations Specialist. Her responsibilities are in interpretation, environmental education, outreach and public relations. She has been working with different school districts and with the marine education program here at the Center. An example of one of her programs is the Shorebirds Sister Count, where schools along the coast go out in the field, identify and count the shorebirds and then pass the information on to the other monitoring schools, to gain a better understanding of migration patterns and movements.

Although she has hardly a trace of a southern accent, Dawn hails originally from North Carolina, earning her B.S. in Wildlife Ecology at the University of Florida and then jumping across the country to get her M.S. at Oregon State University. Her master's thesis was on bird communities of spring-seasonal and semi-permanent wetlands in the Central Valley of

California. She did her research as part of her three years of work for California Fish and Game, monitoring private wetlands who received federal funds.

Dawn's husband Doug is the City Forester for Albany and is a Certified Arborist. He is responsible for all the trees between the sidewalks and the street, approves plantings in new developments and the cutting of any tree larger than 25" around. He and Dawn are refurbishing a 1913 house, focusing on yard work and cosmetic improvements. For additional fun they birdwatch, fish, camp and take care of all of their animals, including three cockatiels and one macaw.



Liz Kelley

Liz Kelley began work at the Refuge office in July and is with the Ecological Services Division. She has been working with endangered species, mainly the snowy plover which is no longer nesting around here, but only from Florence on south. She consults with the Forest Service, Bureau of Land Management, and local watershed groups. The draft recovery plan for the snowy plover will consider beach management, predator control, habitat restoration and outreach and education.

A native of New Jersey, she received her B.S. in International Environmental Studies at Rutgers and followed it up with a two-year stint in Zaire. There she learned Kiyombe and helped with the development of tilapia aquaculture. Once back in the States she worked with hazardous waste management in New Jersey and then to the West Coast to work on spotted owls. She went on to earn her master's in Wildlife Science at Oregon State University. Liz would like to go back to Zaire and see her friends and how the project is doing, but it just isn't safe

enough in the back country. In the meantime Liz plays raquetball and enjoys kayaking, backpacking, cross-country skiing and photography.

HMSC Blood Drive

Thursday, March 14

10:00 a.m. - 3:45 p.m.

Sign up in Director's Office

The victim of an automobile accident typically uses from four to forty pints of blood. It takes up to 60 pints of blood, platelets and plasma to help a liver transplant recipient survive surgery. Join those who make sure blood is there when it is needed.



What's New @ the Library

Electronic Journals

The OSU Libraries continues to add access to electronic versions of journals we get in print. Also, we are beginning to subscribe to only the electronic version of some journals. It's confusing to keep track of what we have access to and how much we have access to. Below is a brief guide to figuring out what e-journal you can get through the OSU Libraries.

First Approach:

Use Oasis, the OSU Libraries catalog <http://oasis.orst.edu>, to find journals we have. If we have electronic access, there will be a link at the top of the record after the title and publisher information that says "Connect to this title online." If you click on the link, you'll

go to the web site for that journal. Remember that most journals only go back a few years in digital format. Example: search Marine Ecology Progress Series.

Variation on the First Approach:

Again use Oasis to find the journal you are interested in. Some will not have the most current three years, but will have older back files. Here there will be a link in the records that says "Connect to issues published more than 3 years ago online." Example: search Limnology and Oceanography.

Second Approach:

Use the OSU E-Journal List,

<http://osulibrary.orst.edu/research/ejournal.htm>, to locate a title. This list includes the titles listed in Oasis as well as other titles that we have limited electronic access to. We have chosen not to catalog the titles with limited access or unstable access. For example, you can get the last 9-12 months (with some variation) of Elsevier journals electronically because we subscribe to the print equivalent; to have more than that electronically would be a currently prohibitive expense. Example: search Marine Pollution.

Third Approach:

Create your own list of e-journals from the announcements of additions that are sent out to various departments. Here's some of the latest additions Ethics in Science and Environmental Politics

<http://www.int-res.com/journals/esep/index.html>

Diseases of Aquatic Organisms

<http://www.int-res.com/journals/dao/index.html>

Aquatic Microbial Ecology

<http://www.int-res.com/journals/ame/index.html>

Climate Research

<http://www.int-res.com/journals/cr/index.html>

New Maritime History Book

Remember Captain Ed Shields' presentation on the last cod fishing trip to the Bering Sea several years ago? Ed has just published a book on the subject and it's full of pictures, descriptions and personal anecdotes. It'll be on the New Book in March. Here's the full citation:

Shields, Ed. 2001. *Salt of the Sea: The Pacific Coast cod fishery and the last days of sail*. Lopez Island, WA: Pacific Heritage



Personnel Notes

Belated congratulations to **Greg and Vicki (Hoover) Krutzikowsky** (CIMRS) on the birth of their second son, Nikolai Keaton Hoover Krutzikowsky on January 12. He weighed in at 8 pounds and was greeted by his brother Ronan.

More belated congratulations to **Todd and Nicole Bridgeman** (NMFS) on the birth of their first child, Naomi Lynn! She was born on January 28, weighed 8 pounds, 9 ounces, and was 21 inches long.

Blaine Griffen defended his master's thesis on "The feeding rate of the mud shrimp *Upogebia pugettensis* and implications for estuarine phytoplankton abundance" on February 26. Congratulations to Blaine!

Clay Creech had a wonderful retirement party, hosted by ODFW, but well attended by individuals from all agencies who have worked with the "Creecher." The Pepsi and bagel theme, the "turkeyhead" announcements and decorated cake, and the list of "Clayisms" all added a very personalized twist to the farewell to our on-site weatherman and original computer support analyst. Fortunately, Clay will still be working part-time at the Center, so any time you need someone to come and scold your recalcitrant computer, Clay is still your man. After 30 years, he's very good at it!

Help Needed

Lavern Weber's retirement party was a great success and as soon as the editor gets some photos, the full story will be in the April Newsletter. If anyone has a good photo of the guest-of-honor at the party, please contact the editor (7-0212). Thanks!

