



SFOS NEWS

Institute of Marine Science • Marine Advisory Program • Fishery Industrial Technology Center • Coastal Marine Institute
Alaska Sea Grant College Program • North Pacific Marine Research Program • Fisheries Division • Global Undersea Research Unit

Vol. 4 Issue 5 August 2001

Alaska National Ocean Sciences Bowl Team Makes a Difference



Judy McDonald

A team of high school students contributed to statewide policy making this June, thanks to **Judy McDonald's** innovation in broadening the scope of the Alaska regional National Ocean Sciences Bowl (NOSB) competition.

“Team Gastineau” and coach Clay Good of Juneau-Douglas High School were invited to the signing of legislation on the discharge of passenger-vessel waste after the team’s research paper for the 2001 NOSB competition caught the eye of a state legislator.

Although **Judy McDonald**, (IMS-SMC), will be retiring from UAF in September, she leaves behind an impressive legacy as regional coordinator of the Alaska regional NOSB competition. When **Ms. McDonald** agreed to take over coordination of this yearly event in 1998, the competition consisted of a one-day quiz game held in Seward. However, the expense and time involved in assembling high school students from throughout the state could not be justified without changing the competition’s format to be more relevant as an instructional tool. Thus, a research project was added to the competition.

Teams were required to research and prepare a 15-page paper and make a 20-minute presenta-

[See NOSB p.4](#)



Faculty Receive Merit Awards



Mark Johnson

Congratulations to **Mark Johnson**, IMS, **Bruce Finney**, IMS, and **Terrance Quinn**, Fisheries, for awards of merit, which carry a one-time merit pay of \$2000.



Terry Quinn

Concerning **Dr. Johnson's** award, **Dean Vera Alexander** writes “this award [recognizes] your pioneering work on the the circulation of the Arctic Ocean, in which you demonstrated the existence of two regimes of wind-forced surface circulation. One of your colleagues has said



Bruce Finney

‘The work is heavily cited and has engendered a lot of interest. Clearly this is a big radar signal among people who are doing something in climate and arctic science.’ Your work has put us into a leadership position in arctic marine science, which clearly in one of UAF’s goals.”

Concerning **Dr. Finney's** award, **Dean Alexander** writes “This award [recognizes] the new light you have shed on the long-term history of salmon runs in Alaska. Given that today Alaska is facing a crisis with greatly reduced and variable returns of

[See Merit Awards p.2](#)

NEWNET Program Activities



NEWNET is a network of autonomous stations, that monitor both meteorological and radiological information within Alaska and other states. Undergraduate students help maintain the stations and work on various projects related to NEWNET.

Recently, the students have begun a new project called Lichen Radionuclide Baseline Research. The purpose of the project is to determine current levels of various radionuclides in lichens and soil and analyze them by gamma spectroscopy. The data will be used in conjunction with published data to determine caribou bioaccumulation.

Research is a requirement for many undergraduates at the UAF for their degree program. By working on this project, students are not only able to meet this requirement but more importantly learn how to plan and approach

[See Newnet p.6](#)

In This Issue

McDonald & Alaska NOSB	1
Merit Awards	1
NEWNET Program Activities	1
FITC News	2
Publications	2
From Dean's Office	2
People	3
SeaLife Center News	4
SFOS Funding	5
WC & PRURC Seeks Proposals ...	5
CMI Reports	5
SFOS web page: Trawling	6
Golden Days Fun	6
CMI Call for Letters of Intent	7
In Memorium: Louis Quam	7

Scott Smiley, director of FITC, was appointed to the North Pacific Fishery Management Council's Essential Fish Habitat Committee. The next meeting of the committee will be August 13th and 14th in Sitka. **Smiley**



Scott Smiley

has also been reappointed to the Board of Directors of the Kodiak Chamber of Commerce. Tom Kornberg, Professor of Molecular Genetics at University of California San Francisco, and one of Smiley's postdoctoral advisors, visited Kodiak with his family in July. Mr. Kornberg toured FITC and met with the faculty, staff and students.

Field researchers, students and lab personnel took a six-hour first aid-CPR course in July 2001 at the FITC. Reflecting on the high quality of UAF grad students, research faculty and staff--they all passed!!!!

Lisa Baraff is a graduate student working with **Kate Wynne**.

She is originally from Pittsburgh, Pennsylvania and studied wildlife biology at the University of Vermont. She completed her undergraduate degree at College of



Kate Wynne

the Atlantic in Bar Harbor, Maine and then worked at the Center for Coastal Studies in Provincetown, Maine. Before coming to Alaska, she worked in Seattle for six years at the National Marine Mammal Lab. She is pursuing a masters degree in marine biology at UAF this fall.

Alison Banks is a graduate student working with **Robert Foy**. She completed her undergraduate biology degree at the



Dr. Robert Foy

University of CA, Santa Cruz, where she worked for three years with Daniel Costa and the U.S. Antarctic Marine Living Resources Program (NMFS/NOAA). Her work on this project examined the energetic qualities of the three main prey species of the Antarctic fur seal. She will be pursuing a master's degree in oceanography at UAF this fall.

Lydia Napitupulu is a graduate student in environmental and resource economics at the University of Rhode Island. She is working with **Quentin Fong** and other



Quenton Fong

FITC staff, studying potential markets for marine-based nutraceuticals and flaked pink salmon. Despite the exciting changes happening in her country (Indonesia) this summer, there is no other place she'd rather be than in Kodiak. She says "working with an interdisciplinary group of staff has been very insightful. It's been a real treat being able to help collect sea lion scat, clean pinks and sample for mussels."

Katie Murra is a new graduate student working on a Ph.D in marine biology with **Loren Buck**. She grew up in South Dakota and completed her undergraduate biology degree at the University of South Dakota. This summer Katie is working with **Loren Buck** and S. Dean Kildaw on seabirds in the Kodiak region. She loves the beauty of Kodiak but eagerly anticipates her arrival in Fairbanks this fall to see if winters there are really worse than in South Dakota. If anyone wonders, she thinks that North Dakota wanting to change its name to "Dakota" is absolutely ridiculous. Contributed by Ginny Bailey.

Merit Awards cont.

western Alaska salmon, the consequences for the subsistence harvesters have been severe. Your work, thus, is not only innovative and original, but also timely."

Concerning **Dr. Quinn's** award, Dean **Alexander** writes "This award [recognizes] your leadership and stature in the area of population dynamics. You have not only done a stellar job in research and teaching, but have contributed greatly to the management of Alaska's fisheries and brought recognition to the School and University through your external service. All this has culminated with the publication of your book, *Quantitative Fish Dynamics*, published in 1999 and co-authored with R.B. Deriso."

From the SFOS Dean's Office

We are pleased to welcome **Louis J. Rugolo**, Ph.D., with the National Marine Fisheries Service, Alaska Fisheries Science Center, as an Affiliate Assistant Professor of Marine Science. **Dr. Rugolo** will work closely with our Kodiak-based programs.

- Taylor, C., L.K. Duffy, **F.G. Plumley**, and R.T. Bowyer. 2000. Comparison of spectrofluorometric and HPLC methods for characterization of fecal porphyrins in river otters. *Environ. Res.* 84:56-63.
- Doran, K., R.W. Ruess, **F.G. Plumley** and T.L. Wurtz. 2001. Photosynthetic responses of white spruce saplings (*Picea glauca*) to controlled density gradients of spruce and green alder (*Alnus crispa*). *Ecoscience (Quebec)* 8:76-88.
- Kolber, Z.S., **F.G. Plumley**, A.S. Lang, J.T. Beatty, R.E. Blankenship, C.L. VanDover, C. Vetriani, M. Koblizek, C. Rathgeber and P.G. Falkowski. 29 Jun 2001. Contribution of aerobic photoheterotrophic bacteria to the carbon cycle in the ocean. *Science* 292:2492-2495.
- Button, D.K.** In Press. Kinetics (Microbial), Theory and Applications. *Encyclopedia of Environmental Microbiology*. John Wiley.
- Jemison, L.A., and **B.P. Kelly**. 2001. Pupping phenology and demography of harbor seals (*Phoca vitulina richardsi*) on Tugidak Island, Alaska. *Mar. Mam. Science* 17:585-600.
- Brown, E.D.** 2001. Airborne remote sensing for fisheries and marine ecological research. *Oncorhynchus* 21:3 (Summer, 2001).
- Vitt, S.M., **B.H. Himelbloom** and **C.A. Crapo**. 2001. Inhibition of *Listeria innocua* and *L. monocytogenes* in a Laboratory Medium and Cold Smoked Salmon Containing Liquid Smoke. *J. Food Safe.* 21: 11-125.
- Okkonen, S.R.** 2001. Altimeter observations of the Bering Slope Current eddy field, *J. Geophys. Res.* 106:2465-2476.
- Okkonen, S.R.**, G.A. Jacobs, E.J. Metzger, H.E. Hurlburt, and J.F. Shriver. 2001. Mesoscale variability in the boundary currents of the Alaska Gyre, *Cont. Shelf Res.* 21:1219-1236.
- Zhang, X., **A.S. Naidu**, **J.K. Kelley**, **S.C. Jewett**, D. Dasher and L.K. Duffy. In Press. Baseline concentrations of total mercury and methylmercury in salmon returning via the Bering Sea (1999-2000). *Mar. Pollut. Bull.*



People



Brendan Kelly

Lauri Jemison received her M.S. through GPMSL in 1997. **Brendan Kelly**, Fisheries, chaired her committee; she and **Dr. Kelly** recently published results (see publications list) stemming from her thesis and data **Dr. Kelly** collected during the 1970s. Ms. Jemison continues to study harbor seals as a Biologist with the Alaska Department of Fish and Game in Juneau.

At the invitation of the editors, **Peggy Merritt**, Affiliate Assistant Professor of Fisheries, recently contributed a chapter to a book entitled, "Recreational Fisheries: Ecological, Economic and Social Evaluation" to be published by Blackwell Science (Oxford) in their "Fish and Aquatic Resources Series." The book, approximately 300 pages, should be published by spring 2002 prior to the World Recreational Fisheries Conference in Darwin; it will be marketed worldwide. The book is a mix of methods, economic and social studies, and management perspectives worldwide, focused on the multi-disciplinary evaluation of the benefits and costs of sport fisheries. Intended readers are researchers, decision makers, students of advanced courses and industry. The editors hope that the book will help decision makers, industry and resource users in establishing an objective framework for judging sport fishing policy issues.

The chapter is entitled "Valuation and policy in Alaskan sport fisheries," by J.W. Duffield (Dept. of Economics, University of Montana), **M.F. Merritt** (SFOS), and C.J. Neher (Bioeconomics). It is the only chapter dealing with Alaska.



Richard Steiner

Richard Steiner, MAP, had an opinion piece entitled "Does Global Warming Really Matter?" published in *USA Today* on July 19th. *USA Today* has the largest circulation of any daily in the US (2.3 million)--and is published to 60 countries around the world. Steiner writes that "global warming should be of concern to all of us, but it is absolutely critical to us here in Alaska-- America's Arctic-- where its effects could be catastrophic. . . . It's a win-win-win. It is time for Washington to accept the science on this issue and act not just sit back and

continue studying the situation." As a result of the piece, **Steiner** did some national and regional radio show debates/discussions on July 19th and July 20th, including the Ollie North Radio Show (*Common Sense Radio*) -- a nationwide program.

Steiner also presented a paper at PACON International 2001 (the Pacific Congress of Marine Science and Technology) in San Francisco in July, 2001, entitled "An Institutional Approach to marine Debris and Other Pollutants - the Pacific Environment Council." Additionally, he made a two-hour presentation on the topic of pipelines (safety, environmental considerations, and economic aspects) to a group of visiting Russians, who were on an exchange visit to Alaska, and was interviewed by Defenders of Wildlife for a nationwide video on the Aleutian sea otter situation.

Vera Alexander appointed **Phyllis Shoemaker**, a technician at the Seward Marine Center, to be the new National Ocean Sciences Bowl coordinator for Alaska. She is replacing **Judy McDonald**. **Susan Sugai** and **Laura Bender** will assist her. **Dr. Sugai** is responsible for the project aspect of NOSB and **Ms. Bender** will help recruit schools to increase the number of high school participants (**Ms. Bender's** degree is a Bachelor's of Education, and she maintains many contacts throughout the Alaska elementary and secondary education community). For more information **Ms. Shoemaker** can be reached at fnpas1@uaf.edu or 224-5261.



Brian Paust

Longtime Petersburg MAP agent **Brian Paust** retired as of July, 2001. According to Julie Carpenter, MAP, he is expected to continue working part time until MAP can begin the recruiting process later in the year.



Gerry Plumley

Gerry Plumley, IMS, and Cindy Van Dover (former SFOS faculty, now at the College of William & Mary) were part of an exploratory cruise last summer off the coast of British Columbia.

Plumley and Van Dover headed a team of scientists whose mission was to search for phototrophic bacteria at deep sea thermal vents as well as throughout the water column. No evidence of phototrophs was found at depth, but the team discovered that the upper surface of the ocean has a large population of anoxygenic photoheterotrophic bacteria. Photoheterotrophs represent an estimated 10% of the total bacterial population in the upper ocean, and bacteriochlorophyll, their special light-harvesting pigment, represents an estimated 5-10% of the total chlorophyll. Rates of CO₂ fixation in these bacteria are very low, especially if dissolved organic matter (DOM) is available. These phototrophs are not to be confused with cyanobacteria (which readily fix CO₂ and release O₂). Evidence from several diverse sites suggests phototrophic bacteria are globally distributed in the upper oceans. The work was published in *Science* (see publications list) and highlighted in *Science's Compass*.



Russell Hopcroft

Russell Hopcroft, IMS, was invited to present a paper entitled "Size-spectra of zooplankton assemblages in Monterey Bay, California: comparison of the nets to the Optical Plankton Counter" at an OPC Workshop sponsored by International GLOBEC in Tromsø, Norway, June 17-20, 2001.

Ray Ralonde, MAP, recently completed the last session of a five session workshop on Water Quality. He has now trained over 100 technicians since April 2000. The training was organized by the Native American Fish and Wildlife Society, with funding from the EPA.



Ray RaLonde



Kathy Frost

Kathy Frost and **Lloyd Lowry**, Afil. Assoc. Professors., IMS, are working on a CMI project with the North Slope Borough to put satellite-linked tags on belugas at Point Lay. Eight tags were put on in early July.

See People, p. 4

People

In late July, **Kathy Frost** participated on the “Harriman Expedition Retraced” as a Harriman Scholar. She is among over two dozen scientists, artists and writers invited to retrace the Harriman Alaska Expedition of 1899. **Vera Alexander**, dean of SFOS, and **Brenda Norcross**, IMS, were also invited. The re-enactment of the expedition is a project coordinated by Smith College, in collaboration with Florentine Films/Hott Productions, the National Oceanic and Atmospheric Administration, the Alaska Geographic Alliance, and PBS. Information on the expedition available at www.pbs.org/harriman.



Dr. Schell, snake handler

Don Schell, IMS, self-proclaimed “Isopope,” again taught at the University of Utah’s course on isotopic techniques applied to ecological studies. This course is an intensive 10-day stretch with

instructors from around the world covering their specialties ranging from ocean sciences to plant physiology to extraterrestrial organic matter. Each instructor lectures (mostly to Ph.D. candidates, post-docs and new faculty) for a day, then does hands-on work for three more days in the field and lab. The course is hosted by Jim Ehleringer and Thure Cerling of University of Utah and uses Dr. Ehleringer’s new mass spec lab and prep facilities. **Schell** took his team on a sampling trip in Red Butte Canyon and collected insects and predators to look at heavy isotope enrichments in food webs. His reputation as snake-catcher remains unbroken with six reptiles captured and suffering the ignominy of donating a scale to the cause. There were no rattlesnakes this year-- only gopher, western patchnose and garter snakes. Following the course in Utah, **Dr. Schell** proceeded to New Mexico to consult with biologist Joe Truett, of the Turner Endangered Species Fund, to look at isotopic methods of determining fire intervals in the desert ecosystems. By using leaf residues on long-lived yuccas and the variations in Carbon-14 due to bomb testing over the past decades, methods were devised to age the plants. The ranch is also home to millions of Mexican free-tailed bats that pour from lava caves in the evening.



Watching the bats and the hawks hunting them was a spectacular finish to the visit.



Dr. Stephen Jewett



Dr. Sathy Naidu

to see how much mercury several species of Alaska fish, including salmon and pike, had in their livers and flesh. While salmon were given a clean bill of health, the researchers say high levels of mercury found in a few pike underscore the importance for a more comprehensive study. The script and links to results and graphs are available at: www.uaf.edu/seagrant/NewsMedia/01ASJ/07.27.01mercury.html.

Stephen Jewett and **Sathy Naidu**, IMS, were recently featured in **Doug Schneider**’s (ASG) Arctic Science Journeys radio show entitled “Mercury in Pike.” **Drs. Jewett** and **Naidu**, and university colleagues **John Kelly**, **Xioming Zhang** and **Larry Duffy** conducted the study with funding from the North Pacific Marine Research Program. They wanted

SeaLife Center News

Kendall Mashburn, recently of the Smithsonian Institution’s Conservation and Research Center, was recently hired to work as the Science Program Assistant for **Shannon Atkinson** at the Alaska SeaLife Center. Among current areas of research, **Ms. Mashburn** and **Atkinson** are involved in the determination of reproductive hormone profiles in captive Steller sea lions, and stress hormone levels in free living animals across the geographical range of the species, which has been steadily declining in western populations since the 1980s. Other studies include surveys of contaminant and disease-causing agents, as well as metabolic and immunological processes in both Steller sea lions and threatened species of sea ducks.

The Steller sea lion work is being conducted along with 17 other major research projects, both at the Center and in the field, all aimed at determining the causes for the precipitous decline of western stocks of the Steller sea lion. Other investigators are looking at the sea lion’s prey and it’s utilization, abundance, and energetic demands of prey acquisition. Also being studied are survival rates and movements of different age groups. Effects of predation on Steller sea lion populations by killer whales and sharks are also being addressed by researchers at the Center.

NOSB cont.

tion of their findings on a current topic of marine interest. This year students were asked to develop a long-term environmental impact plan for a local aquatic or marine ecosystem.

Team Gastineau (www.uaf.edu/seagrant/nosb/2001/gastineau.html), one of three teams from Juneau-Douglas High School, prepared a study, titled “The History and Future of Cruise Ship Waste: Modern Perspectives for a Changing Industry,” which included a 50-year plan for the Gastineau Channel. This study is available on the Alaska Sea Grant website at: www.uaf.edu/seagrant/nosb/papers/2001/Gastineau-cruiseships.html. The presentation by Jessica Page, Sarah Bixby, Jolene Rielly, and Adriana Rodriguez was determined as the best of the NOSB competition by judges **Vera Alexander** (SFOS), **A.J. Paul** (IMS-SMC), **Paula Cullenberg** (North Pacific Fisheries Observer Training Center), **James Olsen** (U.S. Navy Pacific Meteorology & Oceanography Center, San Diego), and **Susan Sugai** (ASG).

However, this project was just beginning. Representative Beth Kerttula of Juneau learned of the team’s research and asked them to present their findings before the Conference Committee on HB 260, addressing discharges from commercial passenger vessels. The team was as convincing with these legislators as they had been with the audience and judges at the Alaska regional NOSB competition. Thus, in June, when Governor Knowles signed HB 260 into law, he invited the members of Team Gastineau and their coach, Clay Good, to the signing and recognized the NOSB team’s contribution to the passage of the bill to law.

As **Judy McDonald** is retiring from UAF, NOSB’s service to their community serves as an excellent retirement gift. Contributed by Susan Sugai, ASG.



Team Gastineau (from left to right): Adriana Rodriguez, Jolene Rielly, Clay Good - coach, Sarah Bixby, & Jessica Page. Photo by Hank Pennington.

SFOS FUNDING FOR THE MONTHS OF JUNE AND JULY, 2001

PI(s)	Project Title	Agency	Funded Amount
Adkison & Smoker	Forecasting Salmon Abundance	ADFG	28,197
Brown, Hills, Foy	Comparison of Prey Availability	NOAA/NMFS	763,147
Coyle	Climate-driven Bottom-up Processes	NOAA	540,057
Coyle	Assistance in Analyzing Acoustic Data	NOAA NMFS	10,000
Crapo	Pink Salmon Shelf Life Extension	CSREES	119,911
Crapo	Membrane Technology in Fishmeal	CSREES	150,514
Crapo	Salmon Caviar Products	CSREES	62,949
Crapo	Digital Observer Smart Tag	CSREES	80,080
Feder	Port Valdez Environmental Studies -2001	Alyeska	157,998
Finney	Stable Isotope Analysis	ADFG	5,000
Finney	Climate Change on Bering Sea Ecosystem	NOAA	121,644
Finney	Documenting Holocene Paleohydrology	NSF	63,252
Fong	AK Salmon Mini-Grant Program	CSREES	433,062
Fong	Third Salmon Marketing Mini-Grants	CSREES	428,378
Fong	Salmon Marketing Workshops	CSREES	77,439
Fong	Summary of AK Dept of Labor Data	Northern Economics	961
Foy	Hydroacoustic Integration System	CSREES	164,386
Foy	Seasonal Assessment of Prey Composition	NOAA	97,545
Himelbloom	Groundfish Quality Improvement	CSREES	26,802
Himelbloom	Controlled Atmosphere Fish Shipping	CSREES	45,594
Johnson, GL	Russian Arctic Continental Margins	ONR	18,993
Kelley	Chautauqua Course (#44) -Aurora Borealis	CSU/NSF	4,000
Konar	Sea Lion Fish Assemblages	NOAA/NMFS	175,559
Konar & Chenelot	Kelp Beds in Kachemak Bay-Chenelot	NOAA	16,447
Naidu	Elson Lagoon Sediments	MMS CMI	56,101
Norcross	Eulachon Life History	USDA FS	20,867
Okkonen	Variability of Biophysical Linkage	NOAA	29,540
Quinn	Salmon Tagging in Upper Cook Inlet	ADFG	20,000
Shaw	Port Valdez Environmental Studies -2001	Alyeska	157,998
Shirley	Reproductive Biology of Snow Crabs	ADFG	222,866
Shirley	Energetic Reserves of Snow Crabs	ADFG	62,129
Shirley	Zooplankton Hydrocarbon Distribution	PWSSC	25,906
Shirley & Bluhm	Lipofuscin Aging of Snow Crabs	ADFG	85,280
Smiley	3rd Party Quality Inspection	CSREES	135,087
Smiley	High Precision Instrumentation	CSREES	201,568
Smiley	High Capacity Pinbone Removal	CSREES	97,523
Springer	Trophic Pathways on C-B Shelf	NOAA	142,657
Springer & Douglas	Fatty Acids as Estimators of Diet	UA Foundation	5,000
Whitledge	Variability of Biophysical Linkage	NOAA	27,017
Willson and Kelly	Geographical Ecology-Steller Lions	NOAA/NMFS	136,575
Total for Projects Set Up for June and July 2001			\$ 5,018,029

compiled by Tania Clucas, SFOS

The SFOS News reports that for the months of July, 2000 through the end of July 2001, SFOS received \$17,042,048.00 in funding.

(This amount is based on figures reported only in the SFOS News)

CMI Reports Available

A number of reports are available free from the University of Alaska Coastal Marine Institute. Go to the CMI website for a list (www.sfos.uaf.edu/cmi) or drop by Maggie Billington's cubicle to look over the selection. In addition, the following two reports will be available as of 15 August:

Highsmith, R.C., S.M. Saupe and **A.L. Blanchard**. 2001. Kachemak Bay experimental and monitoring Studies: Recruitment, succession, and recovery in seasonally disturbed rocky-intertidal habitat. Final Report. OCS Study MMS 2001-053, University of Alaska Coastal Marine Institute, University of Alaska Fairbanks, 66 p.

Tyler, A.V., C.O. Swanton and **B.C. McIntosh**. 2001. Feeding ecology of maturing sockeye salmon (*Oncorhynchus nerka*) in nearshore waters of the Kodiak Archipelago. Final Report. OCS Study MMS 2001-059, University of Alaska Coastal Marine Institute, University of Alaska Fairbanks, 34 p.

WC & PRURC Seeks Proposals

The West Coast & Polar Regions Undersea Research Center (WC&PRURC) is seeking proposals to use undersea platforms, tools and technology needed to aid scientific research in the west coast region, including Alaska and the polar regions. Proposals should address the Center's programmatic themes and should reflect the broader categories developed in the National Undersea Research Program (NURP) Opportunities and Research Guidance for FY2002. Due date is September 4, 2001. Information at: www.wcnurc.uaf.edu:8000/guidelines.html or 907-474-5870.

Golden Days Fun at UAF

Golden Days is a week-long celebration of Fairbanks' gold rush heritage, occurring in July. 2001 marked the 100th anniversary of the landing of the paddleboat *Lavelle Young* on the banks of the Chena River, the spot that is now called Fairbanks, as well as the 50th anniversary of Golden Days, which started in 1951. One of the special events during the festivities is UAF Day, where Golden Days marshalls, cancan dancers and the roving jail on wheels visit the campus. Annually, warrants are bought by employees in order to have their co-workers arrested; SFOS is no exception to this thrilling occurrence. New and retiring workers are traditionally served warrants and the wary run for the nearest exit if they see the marshalls, dressed in appropriate western gear, walking toward their office.



Mark Johnson, IMS, and cohorts participating in the annual Red Green Regatta, held during the Fairbanks Golden Days festivities.



Having been stealthy captured and awaiting release, Golden Days jailbirds Judy Segall, Dorothy Parkerson, Susan Steinmerd, Dina Nekrassova, Jenny Bunker, Ann Trent, and Nancy Mighells smile at those lucky enough to avoid the roving jail.



SFOS jailbirds hoping for a quick release: Judy Segall, Laura Fenton, Tania Clucas, SFOS, and Terry Whitledge, IMS.



Sharpshooter Laura Fenton aiming watergun at defenseless student assistants locked into the Golden Days jail; Fenton, soon after, had her gun confiscated by a Golden Days marshal and found herself locked with her quarry.

Newnet cont.



Loda Griffeth is using a soil corer on loan from the Natural Resources Management Department



Adrienne Orr sampling caribou lichen from a plot located along the Seward Highway.

problems scientifically.

Annual sensor rotations occur on each of the six NEWNET towers within Alaska each summer. This year, a trip to Seward was made not only to conduct the sensor rotation, but also to sample lichen enroute. Loda Griffeth and Adrienne Orr sampled along the Seward Highway from Seward to Anchorage. Loda Griffeth continued the sampling along the Denali Highway from Cantwell to Paxson. Most of the lichen samples retrieved were in the Cladina family. Information on NEWNET is available at: newnet.lanl.gov/newnet.asp. Story contributed by Loda Griffeth.

New SFOS Web Page

The SFOS Web site now features a multi-media web page devoted to a study of bottom trawling impacts on the Bering Sea. Graduate student **Eloise Brown** and principle investigators **Sue Hills** and **Bruce Finney**, IMS, are conducting the study with grants from the North Pacific Marine Research Program (NPMR), Alaska Sea Grant, and the Groundfish Forum. A story about their field work, as well as photos, audio and video interviews with the researchers, and video of divers conducting research on the sea floor are available at: www.sfos.uaf.edu/.



In Memorium

Dr. Louis O. Quam, 95, geologist and geographer, died on July 25, 2001 in a nursing home in northern Virginia. Dr. Quam was awarded an Honorary Doctor of Sciences degree at the University of Alaska Fairbanks in recognition of his support and encouragement of arctic research throughout his long career at the Office of Naval Research and National Science Foundation. In 1950 he was appointed Head, Geography Branch, Office of Naval Research (ONR) in Washington. Early in this position he took the opportunity of take over the ONR program in arctic research, including the Arctic Research Laboratory in Barrow. He was responsible for getting a contract with the University of Alaska for the operation of that laboratory in 1953, a job carried forward with distinction until its final closing by the Navy in 1980. Quam was a strong voice for arctic involvement as were few others and a program was hastily generated which was mainly devoted to drifting ice station investigations. He became Director, Earth Sciences Division, ONR in 1959 and in 1967 he moved to the National Science Foundation as Chief Scientist in the Antarctic Programs Office. In 1969 this office became the Office of Polar Programs and for two years Quam was its Acting Head. He retired in 1972. Contributed by John Kelley, IMS.

CMI Call for Letters of Intent

The University of Alaska Coastal Marine Institute has issued a call for Letters of Intent. LOIs are due **October 5**. Complete information is available at www.sfos.uaf.edu/cmi or through Maggie Billington, 907-474-7707, or Ruth Post, 907-474-6782.



Editor's Corner: Got News?

Special thanks to Ginny Bailey, Maggie Billington, Tania Clucas, Loda Griffeth, Lloyd Lowry, Kendall Mashburn, Peggy Merritt, Judy McDonald, Dave Partee, Richard Steiner, Don Button, Russell Hopcroft, John Kelley, Sathy Naidu, Steve Okkonen, Gerald Plumley, Don Schell, Susan Sugai and others for material used in this newsletter.

Greg Simpson

SFOS Academic Services, SFOS/UAF

figds@uaf.edu 907-474-2464

Fax: 907-474-7204



SFOS News

is produced by the
**School of Fisheries and Ocean Sciences
Academic Services
University of Alaska Fairbanks
Fairbanks, AK 99775-7220**

The University of Alaska Fairbanks is accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. UAF is an AA/EO employer and educational institution.