



SFOS NEWS

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

Vol. 2 Issue 7 November 1999

Teachers Teaching Teachers

Members of the Institute of Marine Science (IMS) faculty and research staff were in for a treat when the North Pole High School Professional Study Team toured the facility on October 21. It was their turn to teach the teachers.

“We used to do this years ago,” said Gail Cagnon, a Biology teacher leader of the group, adding that it was something that her group wanted to get going again. “We need to be current on what is happening in research and science.”

Other members of the Study Team were Jane Anderson (Chemistry), Mary Thomas (student teacher and UAF graduate student), Elizabeth Beks (Life and Earth Sciences and English), and Tom Kinn (Earth Science and Chemistry in the Community).

Seth Danielson, Steve Jewett, John



Research Professor Steve Jewett, University of Alaska Fairbanks Scientific Dive Officer, shows fellow scientists and touring teachers one of the tools he uses, a high-resolution video camera in an underwater housing. Left to right are Tom Kinn, Dr. A. Sathy Naidu, Jane Anderson, Mary Thomas, Elizabeth Beks, Gail Cagnon (partially hidden) and Dr. John Kelley.

See Teachers, Page 3

New Alaska SeaLife Center Director

Dr. Shannon Atkinson will be moving from Hawaii to Alaska in mid-January as she takes over the position of Science Director at the Alaska SeaLife Center in Seward. She replaces Dr. Michael Castellini, who returned to Fairbanks this fall.

In addition to her position as Science Director, Dr. Atkinson will also be a full faculty member of the Institute of Marine Science.

Dr. Atkinson’s research interests are currently focused on various aspects of reproductive biology in marine and terrestrial wildlife, including reproductive physiology, endocrinology and

See SeaLife, Page 2

Crapo, Paust, RaLonde, Rice and Stekoll to chair sessions at Marketing and Shipping Live Aquatic Products '99 conference.

There will be no lack of Alaskan representation at the *Marketing and Shipping Live Aquatic Products '99*,



Dr. Chuck Crapo

being held from November 14-17, 1999 at the Washington State Convention and Trade Center prior to the FISH EXPO and WorkBoat Northwest exhibition and conference.

Dr. Chuck Crapo, Seafood

Quality Specialist for both the Sea Grant Marine Advisory Program and the Fishery Industrial Technology Center in Kodiak, will chair the *Live Shipment Quality and Safety Considerations* technical session.

Mr. Brian Paust, Marine Advisory Program agent in Petersburg with his assistant Allison (Sunny) Rice, will cochair *Molluscs and Crustaceans*.

Mr. Raymond RaLonde, who leads the aquaculture mission for the Alaska Sea Grant Marine Advisory Program, will chair the *Regulatory Concerns* session.

See Aquatic Meeting, Page 3

Funding -- October 1999

PI	Project Title and Agency	Amount
Proshutinsky & Johnson	Beaufort and Chukchi Sea Seasonal Variability - CMI	281,918
Schell (IMS), Smiley (FITC), Husby (SALRM), Pruder (OI), & Hardy (UI)	Feed Supplements from Fish Wastes - USDA, ARS	660,000
Proshutinsky	Proshutinsky IPA to Naval Postgraduate School - Naval Postgraduate School	68,361
Schell (IMS), Smiley (FITC), & Pruder (OI)	Collagenase from Alaskan Pollack - USDA, ARS	301,928
October New Funded Projects Total:		1,312,207

Northern Pacific Fisheries Conference

The Fifth North Pacific Rim Fisheries Conference will be held December 1-3, 1999 in Anchorage. The biennial conference brings together government and industry to discuss management and marketing developments in the North Pacific. For more information, contact the Pacific Rims Fisheries Program, Institute of the North, Alaska Pacific University, (907) 343-2466 or email them at:

Fisheries.ION@gci.net.

IMS Scientists attend NOAA meeting

Dr. J. Goering, S. Naidu, Z. Kowalik, S. Henrichs and D. Schell attended a meeting hosted by the Cooperative Institute for Arctic Research (CIFAR) at NOAA in Seattle, 14-15 October.



Dr. Donald Schell, Director, Institute of Marine Science.

Investigators gave presentations on recently completed and ongoing NOAA-CIFAR sponsored research and made recommendations for future areas of study.

NOAA officials gave an overview of their newly formed Office of Arctic Research and some insights on funding in the years ahead.



Dr. Susan Henrichs, Prof. of Marine Science at IMS.

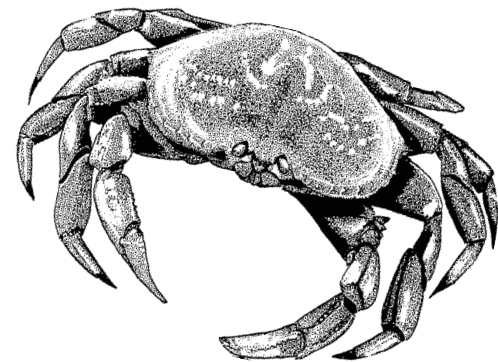
One alarming revelation was that NOAA may reduce emphasis on the Bering Sea due to the influx of NPMR monies. NOAA researchers also presented their findings and participated in the planning sessions.

Student Unit of the Alaska Chapter of the American Fisheries Society Meeting

The Student Unit of the Alaska Chapter of the American Fisheries Society will meet in Kodiak, November 9-11.

The meeting theme of "Today's Technology for Tomorrow's Resources" is intended to foster discussion on research and management techniques to guide long-term, sustainable use of our aquatic resources.

For more information, contact:
 Bill Bechtol
 ADF&G
 3298 Douglas Place
 Homer, AK 99603-8027
billb@fishgame.state.ak.us



SeaLife

behavior, as well as captive and wild breeding management.

At present she is involved in a collaborative project with SeaLife National Marine Fisheries Service. In this project, they are suppressing an aberrant sociosexual behavior of male Hawaiian monk seals. According to Dr. Atkinson, these behaviors appear to be androgen-driven and they are using hormonal manipulation to suppress this activity.

She has also been trying to determine why an entire generation of 4- and 5-year old Hawaiian monk seals has vanished.

"Alarm bells should be ringing all over for that," said Dr. Atkinson at an international gathering in Monaco.

According to Dr. Atkinson, the die off closely resembles what happened to the Caribbean monk seals, which were last seen in 1952, and the Mediterranean monk seal of which 74 percent were lost in a major die off recently.

Other concurrent projects Dr. Atkinson is involved in are examining the estrous cycle and monitoring reproductive condition of female seals, whales, tortoises.

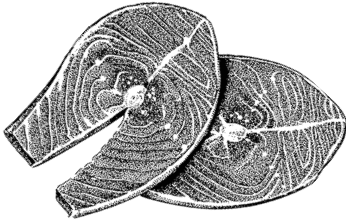
Kramer gives talk at 1999 International Meat, Poultry and Seafood Industry Convention and Exhibition

Marine Advisory Program (MAP) Director Don Kramer, Professor of Seafood Technology, and Ed Kolbe of the Oregon State University Food Innovation Center were invited to give a one-hour talk on "Freezing seafood products--what you need to know" at the 1999 International Meat, Poultry and Seafood Industry Convention and Exhibition in Chicago, October 28-31. The meeting is organized by the American Meat Institute.

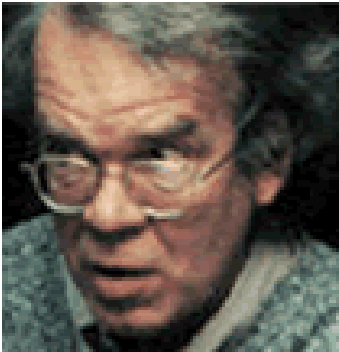
One of the convention sponsors is the National Fisheries Institute, who is helping fund the "Planning Seafood Freezing Manual" that Kramer and Kolbe are developing. The manual will be published by Alaska Sea Grant.



Dr. Donald E. Kramer



Aquatic Meeting



Mr. Brian Paust

Allison (Sunny) Rice, Petersburg MAP Office Manager, will chair the *Social, Ethical, and Humanitarian Concerns* session.

Finally, Professor Mike Stekoll, University of Alaska Southeast, will chair the *Marine Algae and Aquatic Plants* technical session.

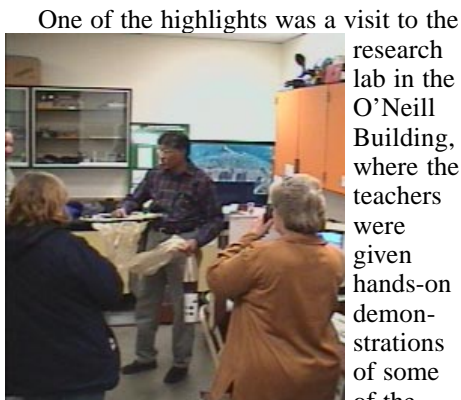
For more information, visit: <http://www.alaska.net/~mpaust>



Mr. Raymond RaLonde

Teachers

Kelley, A. Sathy Naidu, Brenda Konar, Don Button, Don Schell and Bruce Finney treated the visitors to a tour of SFOS's units.



Dr. A. S. Naidu illustrates how a plankton net is used to Jane Anderson (left) and Gail Cagnon (right).

IMS researchers.

The teachers were also excited to learn about possible opportunities for students to take part in a one-day research cruise on the *Alpha Helix*, and the potential for students to work alongside scientists during summer internships.



Dr. Kelley assists Mary Thomas measure radiation using a geiger counter.

Seminars

November 3rd

Ms. Michelle Epp, Grace Abromaitis, and Amy Hirons, Graduate Students, GPMSL:

Stable Isotopes in the Marine Ecosystem

November 10th

Dr. Ricardo Leterlier, Candidate for IMS Faculty in Primary Productivity:

Subject to be announced

November 17

Dr. Russel Hopcroft, Post-Doc, University of Massachusetts, Dartmouth:

Subject to be announced

November 24

No Seminar

Thanksgiving Holiday

December 01

Dr. Delphine Thibault, Candidate for Faculty Position in Secondary Productivity, University of Western Cape, South Africa:

Subject to be announced

December 08

Mr. Jon Sweetman and Frank Satterfield, IMS Graduate Students:

Variability in Sockeye Salmon Ecosystems: Evidence from Marine and freshwater Perspectives.

Unless otherwise noted, all seminars will be held in the Elvey Auditorium, Elvey Building (Geophysical Institute).

For more information, visit <http://www.ims.uaf.edu:8000/> and select **Seminars** under *Handy Links*, or call Dr. Dave Musgrave at 474-7837

Announcements

OSRI seeks proposals

The Oil Spill Recovery Institute (OSRI) is requesting proposals for technologies which demonstrate three dimensional trajectories as well as the resulting physical and biological impacts of dispersed and non-dispersed oil in arctic and subarctic environments. Proposals that focus on Alaskan oil transportation routes and utilize realistic models will be given preference.

OSRI is also requesting proposals for the development of remote sensing technologies of oil spills along major maritime transportation routes in arctic and subarctic regions. Two major areas of interest are aerial applications and underwater applications. The latter includes accessing natural resources at risk due to oil spills.

To download a copy of the RFP and applications for these proposals, visit the OSRI web site at:

www.pwssc.gen.ak.us/osri

AAUW Educational Foundation 2000-2001 American Fellowships

The American Association of University Women (AAUW) Educational Foundation is looking for applications for its 2000-2001 American Fellowship program.

American Fellowships support women doctoral candidates completing dissertations, scholars seeking funds for postdoctoral research leave or for preparing completed research for publication. The awards range from \$5,500 to \$27,000.

Deadline for applying is November 15, 1999. Application guidelines can be obtained from their web site:

www.aauw.org/3000/fdnfelgra.html

NSF Global Change Research Programs

The National Science Foundation (NSF) is inviting scientists from U.S. institutions to submit proposals for its Global Change Research Programs. There are a number of different programs with varied deadlines. Currently, NSF is seeking proposals for research on current changes in sea level using geophysical techniques (deadline December 1), improved understanding of the potential

impact of human activities on the Earth's hydrologic and energy cycles (deadline December 1), and global change-related research on ecological systems (deadline December 15).

For more information on these and other Global Change Research Programs, visit their web site at:

www.nsf.gov/geo/egch

NSF releases new proposal guidelines

The National Science Foundation (NSF) announced the release of its updated Grant Proposal Guide (NSF 00-2) and Proposal Forms Kit (NSF 00-3). Copies of these documents are available from Academic Services in both electronic form and hard copy, or you can download them directly from the NSF web site:

www.nsf.gov/home/special/notices.htm

New Radio Show

Alaska Sea Grant will launch a new radio show called Alaska Science focusing on SFOS research beginning January 1, 2000. The new series will complement Sea Grant's current radio program, Arctic Science Journeys, which airs on most Alaska public radio stations and several commercial stations. Contact Doug Schneider (fdngs@uaf.edu) if you have suggestions for story ideas.

NPFOTC Looking for Observers

The North Pacific Fisheries Observer Training Center, a unit of the University of Alaska Anchorage, trains fisheries observers for the National Marine Fisheries Service and the Alaska Department of Fish and Game. They would like to increase the complement of Alaskans who participate in the program. Currently, only 26 of the 338 observers are Alaskan residents. For more information on NPFOTC and the training program, visit:

www.uaf.edu/otc/

or email Paula Cullenberg at:

anpjc@uaa.alaska.edu

Provost Office Funding for Student Competition

A generous \$15K donation from Key Bank is now available to fund UAF individual students or student teams to participate in academic competitions. Proposals (two pages max.) may be originated by members of the faculty, staff or student body. Each proposal must include a letter of endorsement from a UAF faculty or staff member who agrees to provide financial oversight for UAF. Deadline for proposals is December 1. For more information, call Hild Peters at 474-5178 or e-mail fnhmp@uaf.edu.

New Seafood Technology Program

Sheldon Jackson College (Sitka) with help from the SFOS-Marine Advisory Program (MAP) announced a new Seafood Technology Training program designed to prepare students for immediate employment in the seafood industry.

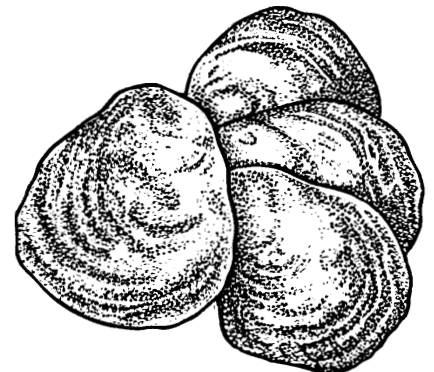
The courses were developed to accommodate industry members by avoiding the two largest fishing seasons, salmon season (June through August) and pollock A season (January through March). They also will not follow the standard semester format. Instead, they are held in short one-credit segments of three days, one week or two weeks, often using evenings and weekends.

Course instructors include members of MAP, the seafood processing industry and other Universities.

For more information, visit:

<http://sj-alaska.edu>

and select *Seafood Technology Program*.



Publications In the News



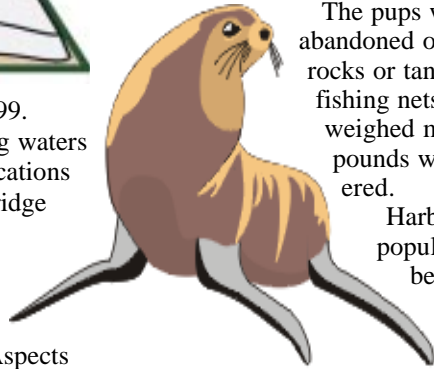
Wheat, C. G. and M. J. Mottl. 1999. Composition of pore and spring waters from Baby Bare: Global implications of geochemical fluxes from a ridge flank hydrothermal system. *Geochimica et Cosmochimica Acta*. In Press.

Naidu, A.S. and Ch. M. Rao, editors. 1999. Special Issue: Aspects of the Geology, Geophysics and Paleooceanography of the Indian Ocean. *Marine Geology*, 161(1), 91p.

(Dr. Naidu convened a symposium on Geology and Geophysics of the Indian Ocean two years ago in Dona Paula, Goa, India. Later, he joined with Dr. Rao to edit the above publication which was based on the Dona Paula symposium.)

Harbor Seals Released

Alaska Sealife Center (ASC) released four rehabilitated harbor seal pups fitted with radio transmitters on November 12.



The pups were found abandoned on beach rocks or tangled in fishing nets. None weighed more than 10 pounds when discovered.

Harbor seal populations have been on the decline for the past couple of decades. The transmitters on these seals will give researchers an opportunity to track their movements until the spring molt.

False Pass fishery controversy continues

The controversy over the affect the False Pass fishery has on Seward Peninsula Chum Salmon has moved to the Federal regulatory system after a coalition of subsistence users lost an appeal in the Alaska Supreme Court to force the Alaska Board of Fisheries to limit the Chum by-catch.

With the Federal government takeover of fishery management, the group asked the Federal Subsistence Board (FSB) for help. Taylor Brelsford, head of planning for FSB, said extensive analysis of the best scientific information available would be required before any decision could be made affecting the fishery.

Salmon Recovery efforts in peril

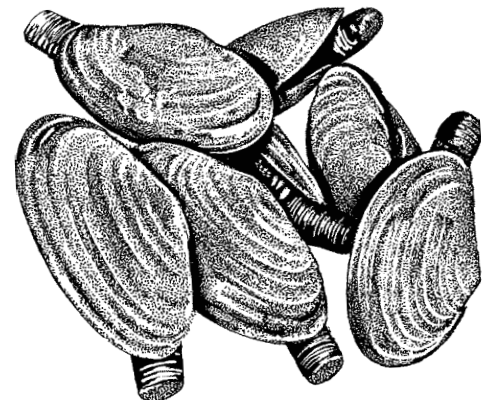
The President's planned veto of a key spending bill places salmon recovery programs along the west coast and Southeast Alaska in jeopardy. Alaska could potentially lose \$14 million.

IARC gets \$5 million

President Clinton signed the fiscal 2000 appropriations bill on October 20 which included \$5 million for the International Arctic Research Center.

Ulmer reappointed to fishing commission

Gov. Fran Ulmer was reappointed to a second four-year term on the North Pacific Anadromous Fish Commission. Ulmer, who was vice chairman, moved up to chairman of the commission during its annual meeting in Juneau in October.



NMFS Issues New Rules

The National Marine Fisheries Service (NMFS) issued new rules for pollock fishing off Alaska designed to protect the endangered Steller Sea Lion.

According to NMFS Deputy Assistant Administrator for Fisheries, Andy Rosenberg, the problem is not overfishing of pollock, but rather that the pollock, fishing vessels and Sea Lions all head to the same spot at the same time. The new rules will help separate the Sea Lions and fishing vessels.

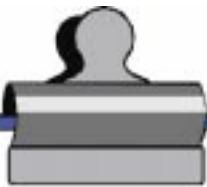
Improved PSP testing may open live Geoduck market

Improved PSP testing techniques are needed to open up the potentially lucrative Geoduck fishery.

Geoducks are a multimillion dollar industry in British Columbia and Washington State.

It often takes two days for shellfish to make it to the Palmer testing laboratory which can result in up to a 50 percent mortality before they reach their intended market. Geoducks can bring up to \$10 per pound in Asia and have a shelf life of about a week if handled correctly.

(Dr. Gerry Plumley is currently working on a new PSP testing technique that could potentially reduce testing time down to less than a day.)



REMINDER BINDER Thanksgiving Holiday

The University of Alaska will be closed November 24-25 to celebrate Thanksgiving.

You want to get paid?

In order to avoid any delays in receiving your paycheck, it is highly recommended that you switch to automatic (electronic) deposit.

However, if you do not want to use automatic deposit, please give us any change of address as soon as possible. Checks cannot be forwarded and there will be a delay of 2 - 3 weeks if a check is returned to UAF because of an incorrect address.

If you have any questions about this or any other Payroll/Personnel items, please contact us at the SFOS Fiscal Office. We will be happy to help you.



SFOS Tid-Bits

Research Associate Lori Quakenbush and Professor Mike Castellini will be featured speakers at the 1999 Sitka Whalefest (November 5-7). The event celebrates Sitka's diverse and abundant marine life.

Quakenbush will present a program on Walrus while Professor Castellini's subject will be Sea Lions.

David Brenner, Alaska Sea Grant's graphics manager, had two gelatin-silver prints accepted in the Fairbanks Arts Association's *64th Parallel Juried Art Show*. He also had several of his images included in a traveling museum exhibit sponsored by the Woods Hole Oceanographic Institution titled "Extreme Deep," and contributed photos for a new book titled "*Off to Sea*," by Deborah Kovacs.

Research Assistant Professor Brenda Konar was recently interviewed by Anthony Boxshall, who has an environmental science program on Australian Public Radio. Konar is an experienced polar and cold weather diver and discussed equipment and the differences between diving in the Antarctic, Arctic

and Aleutians.

Alaska Sea Grant Program

Alaska Sea Grant just released *Biological Field Techniques of Chionoecetes Crabs*. Co-authored by Luke S. Jadamec, William E. Donaldson and Paula Cullenberg, the publication uses beautiful line drawings and both black and white and color images throughout.

Also new is a Japanese language version of the laminated color poster *Alaska's Bounty*.

For more information on Alaska Sea Grant's publications and programs, visit their web site at:

<http://www.uaf.edu/seagrant/>

Alaska Sea Grant also has a new toll free telephone number for ordering publications--1-888-789-0090.

Editor's Corner: Got News?

Newsletter production begins the last week of each month. We are always eager for material and photographs.

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