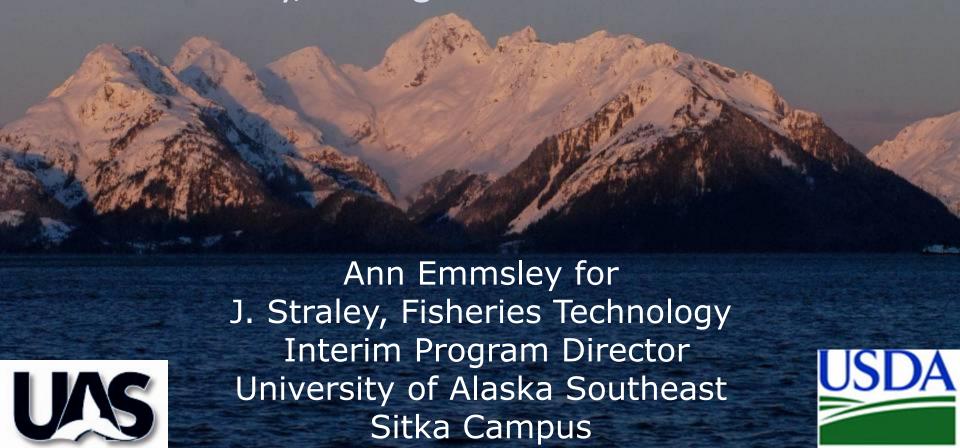
### Partnerships in Fisheries Technology:

Building our leaders of tomorrow in fisheries and ocean sciences through collaboration between industry, management and academia



# State-wide entry level program for non traditional students in rural communities





Administration moves from Ketchikan to Sitka 1 July 2013



UAS Sitka Campus offers faculty support for teaching distance.

Sitka is a fisheries hub, with 3 hatcheries, including the only salmon

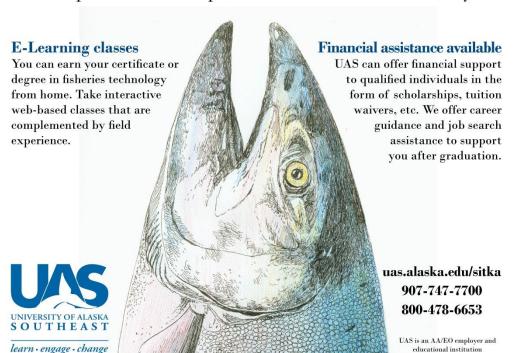


training hatchery at the Sitka Sound Science Center (photo shows hatchery pens)



#### Prepare for a Career in Fisheries Study in Your Own Community

Classes for certificate or A.A.S. degrees offered on the web in cooperation with campuses from Ketchikan to Bristol Bay.



Oncorhynchus tshawytscha

Statewide program serving regional & community needs in workforce development

Articulation
Agreements at other rural campuses



In Place



**Projected** 



UAF 4 year



#### Two year Associate degree and one year certificate programs

#### Fisheries Technology, A.A.S.

#### **Associate of Applied Science**

#### Ketchikan, Distance Delivery

The Associate of Applied Science provides students with a broad educational and practical foundation in the field of fisheries technology. Students will be prepared for entry level employment in federal and state agencies, hatcheries, and the private sector.

#### **Degree Requirements**

The A.A.S. in Fisheries Technology requires a minimum of sixty credit hours and a GPA of 2.5. Of the 60 credits, students must complete 20 credits at the 200 level or above. Students must earn 6 credit hours of internship.

#### MINIMUM CREDIT HOURS

60

#### Two Tracts

Fish culture Fisheries management

- Articulates with the one year certificate program
- Also articulates with UAF School of Fisheries.
- AAS graduates can readily move on to 4 year B.Sc.
- Courses distance delivered and workshop based
- Internships are a fundamental aspect of the program

### **Industry Partnerships**

- Industry input is essential to stay on track and meet training needs
- More hands-on coursework recommended by industry
  - Water recirculation/reuse
  - Fish health/nutrition
  - Basic hatchery maintenance, small engines
  - Weir/fieldwork training
  - Asynchronous delivery professional development



### Distance Delivery

- Video enables live interaction between students and instructor
- Rural students have accessed courses with little difficulty in recent years
- Communication between instructor and student via email and phone – instructors highly accessible
- Allows non traditional students educational opportunities

### Pros and Cons of Distance Delivery

#### Disadvantages:

- Lack of face to face hard for some students
- Dependence on technology
- Hands-on lab sessions not always possible

#### Advantages:

- Higher education available to remote sites
- Flexibility just need access to the internet/can be travelling
- Class sessions are recorded to allow students access if missed

## Key on-site workshop: Fish Culture Techniques Course

 Designed for both experienced and inexperienced fish culturists. Learn from one another.

• Use of local resources: fish processors, 3 hatcheries, state fisheries biologists, etc.

Located at Sitka
 Center

#### Stimulating interest at various grade levels

- Introduction to Fisheries Careers
- College career fairs
- Tech Prep at regional high schools
- Supporting elementary and secondary educators
- Scientists in the Schools

### FT093: Intro to Alaska Fisheries & Fisheries Career Pathways

This course is for high school juniors and seniors in communities throughout Alaska to broaden their understanding of the wide variety of fisheries careers available in our state. Students will work with a community mentor who is knowledgeable about local resources and who will facilitate 3-5 site visits with various fisheries professionals in their place of work.

#### Possible site visits include:

- fish hatcheries
- fisheries management agencies
- fish processing facilities
- · commercial fishing vessels





### 2012 Salmon Spawning Olympics!

Hands on activity for fifth grade
Teaching fish culture basics w/o any fish



Goal is to learn to spawn salmon eggs to raise in hatchery



Broodstock=ballons different sexes and species



Simulates real process w/waders.



incubation



Spawning process

### Where we are today.....

- 20+ graduates are employed in some aspect of the fisheries industry or management
- 35 students currently enrolled in program from across AK
- Professional development for current workers in the fisheries field
- Outreach specialist in each community with articulation agreement will facilitate recruitment and advising
- Dedicated advisor for the Fish Tech program

### Long term impacts.....

- Creation of a well-trained fisheries and aquaculture workforce
- Increased capacity for coastal Alaskan fisheries enterprises to persist and hire locally
  - Ability of University of Alaska system to provide entry level college education to residents statewide
  - Contact Jan Straley if questions
  - jmstraley@uas.alaska.edu

### Thanks to our supporters!

The state of the state of

- USDA NIFA ANNH program and Icicle Seafoods generously support the Fisheries Technology Program
- Sitka Sound Science Center is a working partner. The SSSC facility is a great teaching platform.
- Local hatcheries and other agencies have provided current job information to students.
- Our students who enter the industry wellprepared!