

**Alaska Cooperative Fish and Wildlife Research Unit
and
Institute of Arctic Biology**

Annual Research Review—Wednesday, March 28, 2007

Regents' Boardroom, 109 Butrovich Building, University of Alaska Fairbanks

8 a.m.—Coffee & Conversation

8:30—Opening Remarks, Joe Margraf, Unit Leader

Talks by IAB and Unit Scientists

- 8:40 Kris Hundertmark
- 9:00 Mark Lindberg: Applied Studies of Population Dynamics: Past Results and Future Direction
- 9:20 Perry Barboza: Wildlife Nutrition
- 9:40 Christine Hunter: Wildlife Demography in a Discrete World
- 10:00 Break
- 10:30 Abby Powell: Avian Ecology in the Arctic
- 10:50 Dave McGuire: Ecological Modeling Capabilities
- 11:10 Brad Griffith: Terrestrial Habitats and Wildlife Responses
- 11:30 Mark Wipfli: Fish, Bugs, and Natural Resource Management
- 11:50 General Q&A

Noon—Lunch and Poster Session

Jeremy Carlson:

Assessment of Fish Condition in Arctic Ocean Nearshore Lagoons Using Bioelectrical Impedance Analysis

Samantha Decker:

Temperature as a Spatial and Temporal Limit of Chinook Salmon Spawning Habitat

Elizabeth Green:

Drifting Invertebrates from Fishless Headwaters as Food for Downstream Fish in the Wenatchee River Basin

Andra Love:

Reconstructing Salmon Runs Using Marine-Derived Nutrients in Freshwater Mussels

Steffen Oppel:

Using Stable Isotopes to Explore King Eider Nutrient Allocation to Egg Production

Jeff Perschbacher:

Habitat Assessment of Juvenile Salmonids with Aerial Imagery of a Southcentral Alaskan Stream

Dan Rinella:

Marine-Derived Nutrients in Southcentral Alaska Watersheds

Jennifer Roach:

Magnitude, Rate, and Heterogeneity of Lake Drying in Interior National Wildlife Refuges

1:30 p.m.—Talks by Unit-Sponsored Graduate Students

- 1:30 Introductory Remarks
- 1:40 Aaron Martin: Aquatic Community Development in Response to Stream Habitat Restoration: Effects of Wood and Salmon Analog Additions
- 2:00 Joshua Peirce: Relationships between Brown Bears and Chum Salmon at McNeil River, Alaska
- 2:20 Bruce Medhurst: Headwater Invertebrate Communities across a Gradient of Logging Disturbance in Wet and Dry Ecoregions of the Wenatchee River Basin, Washington
- 2:40 Christie Hendrich: Preliminary Findings on Alternative Escapement Goals for Unuk River Chinook Salmon (*Oncorhynchus tshawytscha*)
- 3:00 Rebecca Bentzen: Physiological State of Incubating King Eiders
- 3:20 Break
- 3:50 Lincoln Parrett: Seasonal Patterns in Fecal Measures of Caribou Diet Quality and Remotely Sensed Habitat Quality
- 4:10 Stacia Backensto: Common Raven Nest Site Characteristics in Alaska's North Slope Oil Fields
- 4:20 Theresa L. Tanner: Geomorphology and Inconnu Spawning Habitat Selection: A Heuristic Model
- 4:40 Christopher Latty: Sub-lethal Effects of Implanted Satellite Transmitters on Captive Common Eider (*Somateria mollissima*) Foraging at a Depth of 5 M

5 p.m.—Social Sponsored by the Institute of Arctic Biology (same location)

Note:

The Unit Cooperators' Business Meeting will be held Thursday, March 29, from 9 a.m. to Noon (same location)