

## 2004 Alaska Unit Research Review

109 Butrovich Building, Regents' Conference Room

University of Alaska Fairbanks, West Ridge

Wednesday, February 25

### Talks

- 8:30 Introduction
- 8:40-9:00 Anthony Eskelin,\* F. J. Margraf, and J. Hasbrouck—Relative precision of trap efficiency experiments in estimating salmon smolt abundance in small streams
- 9:00-9:20 Jason Valliere and F. J. Margraf—Movements, vertical distribution, and temperature selectivity of lake trout in Lower Ugashik Lake
- 9:20-9:40 Deena Jallen and F. J. Margraf—Developing a method for quantification of chinook salmon spawning habitat
- 9:40-10:00 John P. O'Brien and F. J. Margraf—Understanding the link between river features and habitat for spawning chum salmon
- 10:00-10:20 Jenny Neyme Polloczek, F. J. Margraf, and N. F. Hughes— Environmental processes affecting population dynamics and life history traits of Arctic grayling populations
- 10:20-10:40 Break
- 10:40-11:00 Brian Riordan, D. L. Verbyla, and A. D. McGuire—The use of remote sensing to examine changes in water levels associated with climate warming in Alaska
- 11:00-11:20 J. Brooke Gamble, E. C. Murphy, K. M. O'Reilly, and C. L. Buck—Effects of reproductive stage on adrenal responsiveness of glaucous-winged gulls in Chiniak Bay, Kodiak Island, Alaska
- 11:20-11:40 Joshua Schmidt, E. A. Rexstad, A. N. Powell, and E. J. Taylor— Duckling survival and habitat use in common goldeneyes in interior Alaska
- 11:40-Noon Michael Knoche, A. N. Powell, P. Barboza, M. J. Wooller, and L. Quakenbush—Examination of king eider wing molt ecology using stable isotope analyses

\* Boldface indicates Presenter

### 12:30-2:00 Posters (students will stand by their posters) and Buffet Lunch

- Stacia Backensto,\* A. N. Powell, G. P. Kofinas, and C. Gerlach—The common raven on the North Slope of Alaska: Wildlife management and the human dimension
- Michael Balshi, A. D. McGuire, T. S. Rupp, D. L. Verbyla, and F. S. Chapin III— Modeling the role of wildfire in the global carbon cycle
- Colin Beier, G. P. Juday, P. E. Hennon, D. D'Amore, A. D. McGuire, and F. S. Chapin III—Dendroclimatology of declining yellow cedar forests in southeast Alaska
- Rachel Jones and B. Griffith—Assessing temporal changes in habitat selection by caribou
- Bryce Lake, M. S. Lindberg, J. A. Schmutz, R. M. Anthony, and F. J. Broerman— Spatial and temporal variation in body mass of juvenile emperor geese: The influence of landscape-level processes
- Julie Morse, A. N. Powell, and M. Tetreau—Assessing the effect of recreational disturbance on productivity of black oystercatchers in Kenai Fjords National Park
- Isla Myers-Smith, A. D. McGuire, F. S. Chapin III, and J. W. Harden—Carbon exchange along a soil moisture gradient after fire

Lincoln Parrett, B. Griffith, G. Carroll, C. George, and R. Suydam—Calving and post-calving habitat selection by the Teshekpuk caribou herd

Miranda Plumb and F. J. Margraf—Fish community structure of resident salmonids in Upper and Lower Ugashik Lakes of the Alaska Peninsula.

Joy Ritter, E. A. Rexstad, F. Huettmann, L. Adams, and P. Owen—Building species distribution models for Denali National Park

David Safine, M. Lindberg, M. Bertram, and M. Vivion—Breeding ecology of white-winged scoters on the Yukon Flats

Miranda Terwilliger and B. Griffith—Assessing habitat quality for Dall's sheep in Wrangell-St. Elias National Park and Preserve, Alaska

Heather Wilson, T. L. Moran, P. L. Flint, and A. N. Powell—Survival and reproduction of Pacific common eider on the Yukon-Kuskokwim Delta, Alaska.

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2:30-4:30 Cooperators' Business Meeting