KATHERINE R. MEHL
Assistant Professor
Department of Biology
University of North Dakota
Grand Forks, ND 58202

CARREER INTERESTS

Maintain an active roll in avian ecology. Motivate and work to spark interest in wildlife conservation.

EDUCATION

1999 – 2004	University of Saskatchewan, Saskatoon, SK **Ph.D.** Biology *Thesis:* Brood ecology and population dynamics of King Eiders	GPA: 3.5
1997 – 1999	Texas A&M University – Kingsville, Texas **M.Sc.** Range & Wildlife Sciences, Statistics minor *Thesis*: Movements and survival rates of wintering Piping Plovers	GPA: 4.0
1994 – 1997	Humboldt State University **B.Sc.** Wildlife Ecology, Biology minor, Cum Laude	GPA: 3.8
1991 – 1994	Riverside City College, Riverside, California. **A.Sc.**	GPA: 3.5

PROFESIONAL EXPERIENCE

University of North Dakota, 10 Cornell Street, Grand Forks ND 58202
Assistant Professor August 2007 to Current

- Developed course outline and teach Wildlife Management (lecture and lab)
- Developed contacts among state and federal agencies

Ducks Unlimited Canada, 6 Bruce Street, Mount Pearl NL A1N 4T3
Research Scientist May 2003 to July 2007

- Established and implemented long-term research program addressing population ecology and management of Common Eiders.
- Incorporated capture-mark-recapture sampling design to gain estimates of survival, seniority, recruitment, population growth, migration routes, and indices of hunting pressure.
- Developed and maintained a $1.5 million research budget.
- Established and chaired a science advisory committee to oversee research.
- Hired and supervised up to ten field personnel at two separate, simultaneously ran remote field sites/year.
- Cooperated and worked effectively with federal, provincial, and US State managers, non-profit organizations, university personnel, and community members.
- Raised over $80,000 annually in research funds.
- **Maintain adjunct status at Memorial University of Newfoundland**
- **Co-supervised M.Sc. candidate on avian ecology.**

University of Saskatchewan, Department of Biology, Saskatoon, SK S7N 0X4
Ph. D. Candidate June 1999 to May 2004

- **Lecturer for Ecology Laboratory course.**
- Used a combination of capture-mark-recapture techniques, radio-telemetry, and naturally occurring stable-isotope analyses to address avian population ecology.
- Modeled survival, seniority, recruitment, population growth, and breeding propensity in relation to covariates.
- Incorporated innovative ideas such as use of shorebird traps to capture King Eiders and use of color leg-bands to create visible nape-markers that allowed for estimates of duckling survival.
- Completion of Ph. D. thesis write-up and defence while working full-time as the Research Scientist for Ducks Unlimited Canada.

Canadian Wildlife Service, Room 200, 4999-98 Avenue, Edmonton, AB T6B 2X3
Piping Plover Surveys Contractor December 2002 to February 2003

- Calculated Piping Plover population size and resighting probability.
- Coordinated survey efforts with the Canadian Wildlife Service and the US Fish and Wildlife Service.
- Prepared detailed report for Canadian Wildlife Service including database with plover locations and overlay of land ownership for each location.

PROFESIONAL EXPERIENCE (Continued)

Texas A&M – Kingsville, Kingsville, TX 78363

M.Sc. Candidate May 1997 to May 1999

- Used marked birds to link Piping Plover wintering and breeding areas and minimum time required for migration.
- Documented changes in patterns of Piping Plover habitat-use based on weather variation.
- Used GIS software ArcView to map Piping Plover home ranges.
- Conducted shorebird surveys that helped in the recognition of the study site as a Western Hemisphere Shorebird Network site.
- Voluntarily gave oral presentation to high school, university, government, and non-technical birding groups.

PUBLICATIONS

Wayland, M, R.T. Alisauskas, D. Kellett, J. Traylor, C. Swoboda, E. Neugebauer, K. Mehl. Year-to-year correlations in blood metal levels among individuals of two species of North American sea ducks. Environmental Pollution. *In press.*

Mehl, K.R., R. Alisauskas, D. Kellett. 2007. King Eider brood ecology: correlates of duckling survival. Auk124:606-618.

Mehl, K.R., R. Alisauskas, K. Hobson, F. Merkel. 2005. Linking breeding and wintering areas of king eiders: making use of polar isotopic gradients. Journal of Wildlife Management 69:1297-1304.

Kellett, D., R. Alisauskas, K.R. Mehl, K.L. Drake, J. Traylor, and S. Lawson. 2004. Body mass of long-tailed ducks during incubation. Auk 122:313-318.

Mehl, K.R, R. Alisauskas, K. Hobson, and D. Kellett. 2004. To winter east or west? Heterogeneity in winter philopatry in a central-arctic population of king eiders. Condor 106:241-251.

Kellett, D., R., Alisauskas, and K.R. Mehl. 2003. Nest selection, interspecific associations & nest success of king eiders. Condor 105:373-377.

Mehl, K.R, K.L. Drake, G. Page, P Sanzenbacher, S. Haig, & J. Thompson. 2003. Capture of breeding and wintering shorebirds with leg-hold noose-mats. Journal of Field Ornithology; 74: 401-405.

Drake, K.R., J. Thompson, and K. L. Drake. 2001. Movements, habitat use and survival of nonbreeding piping plovers. Condor 103: 259-267.

*NOTE Name change took affect July 2002. Former last name prior to this date was Drake.

PRESENTED PAPERS

Mehl, K.R., *R.T. Alisauskas*, and D.K. Kellett. August 2006. Breeding condition and nest success of King Eiders: does breeding affect survival? North American Sea Duck Conference and Workshop, Annapolis, MD.

***Mehl**, K.R.*, R.T. Alisauskas, and D.K. Kellett. November 2005. Breeding condition and nest success of king eiders: does breeding affect survival? North American Sea Duck Conference and Workshop, Annapolis, MD.

Mehl, K.R., R.T. Alisauskas, K.A. Hobson, and D.K. Kellett. February 2004. To winter east or west? Heterogeneity in winter philopatry in a central-arctic population of King Eiders. 3rd North American Duck Symposium, Sacramento California.

Mehl, K.R. November 2002. Use of stable isotopes to delineate populations of King Eiders. North American Sea Duck Conference and Workshop, Victoria, BC.

Drake, K.R., K.L. Drake, J.T. Thompson, and C. Zonick. January 2002. Movements, habitat use, and survival of nonbreeding Piping Plovers. North American Plover Species at Risk, Ann Arbor, MI, *invited speaker*.

**Presenter in italics*

REFERENCES

Dr. Jonathan Thompson	Dr. Ray Alisauskas	Dr. Robert Clark
Project Leader	Research Scientist	Research Scientist
Ducks Unlimited Canada	Canadian Wildlife Service	Canadian Wildlife Service

#200, 10720-178th Street
Edmonton AB T5S 1J3
(780) 489-2002
j_thompson@ducks.ca

115 Perimeter Road
Saskatoon, SK S7N 0X4
(306) 975-4556
ray.alisauskas@ec.gc.ca

115 Perimeter Road
Saskatoon, SK S7N 0X4
(306) 975-4110
bob.clark@ec.gc.ca