

# Curriculum Vitae

## Kris Joseph Hundertmark

Institute of Arctic Biology and  
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### EDUCATION

- Ph.D. Biological Sciences—Wildlife**, University of Alaska Fairbanks; Dissertation title: Phylogeography of moose (*Alces alces*): genetic signatures of population history, 2001; Co-advisors: Dr. R. Terry Bowyer and Dr. Gerald F. Shields
- M.S. Wildlife Science**, Oregon State University; Thesis title: Food selection and juvenile survival in Nuttall's cottontails in central Oregon, 1981; Advisor: Dr. B. J. Verts
- B.S. Forest Science** (cum laude), The Pennsylvania State University, 1978

### PROFESSIONAL GOALS

To contribute, through research, education and outreach, to the understanding of the ecology and evolution of wildlife populations, species, and communities and to facilitate their conservation.

### RESEARCH INTERESTS

Conservation of intensively managed species  
Conservation genetics  
Landscape genetics  
Population biology of large mammals  
Phylogeography

### PROFESSIONAL EXPERIENCE

University of Alaska Fairbanks, Fairbanks, AK, 2005-present

Aug. 2005-Present: Assistant Professor of Wildlife Ecology, Institute of Arctic Biology and Department of Biology and Wildlife

Zoological Society of London, Regent's Park, London, United Kingdom, 2003-2005

Jan. 2003-July 2005: Conservation Geneticist, King Khalid Wildlife Research Centre, Thumamah, Kingdom of Saudi Arabia

Alaska Department of Fish and Game, Division of Wildlife Conservation, 1982-2002

2000-2002: Research Geneticist  
1995-2000: Senior Scientist, Kenai Moose Research Center  
1988-1994: Research Wildlife Biologist, Kenai Moose Research Center  
1983-1987: Wildlife Biologist  
1982: Fish and Wildlife Technician

### SUPERVISION OF STUDENT RESEARCH

#### *Current graduate students*

Gilbert, Sophie — PhD student in Biological Sciences—Wildlife; Thesis topic: Habitat- and landscape-level correlates of mortality in black-tailed deer fawns. Start date: Fall 2009. Expected completion date: Spring 2014

Mager, Karen — PhD student in Biological Sciences; Thesis topic: Identification and history of Teshekpuk Lake caribou: perspectives from landscape genetics and oral history. Start date: Fall 2006. Expected completion date: Spring 2011

Kraft, Benjamin — MS student in Wildlife Biology and Conservation; Thesis topic: Comparative movements and habitat use between adjacent high- and low-elevation moose populations. Start date: Fall 2006. Expected completion date: Spring 2010

Lewis, Tania — MS student in Wildlife Biology and Conservation (co-advised with S. Pyare); Thesis topic: Bear distribution model and disturbance study in Glacier Bay National Park. Start date: Fall 2008. Expected completion date: Spring 2011

### ***Former graduate students***

Woldstad, Theresa — MS in Wildlife Biology and Conservation (2009); Thesis topic: Distribution and spread of an invasive louse, *Trichodectes canis*, in Alaska wolves.

Brinkman, Todd — PhD in Biological Sciences—Wildlife (2009); (co-advised with F. S. Chapin); Thesis topic: Understanding key components of a deer hunting system to enhance resilience.

Hobbs, Geoffrey I. — MSc in Wild Animal Biology (2004), Royal Veterinary College, University of London and Institute of Zoology, Zoological Society of London; Project topic: Inbreeding and juvenile survival in captive-bred gazelles in Saudi Arabia.

### ***Former undergraduate research students***

Swensgard, Nicole — EPSCoR undergraduate research fellow, 2006; Project title: Evaluating methods for extracting DNA from fecal pellets of black-tailed deer.

## **PROFESSIONAL AFFILIATIONS AND SERVICE**

### ***Professional Memberships and Affiliations:***

The Wildlife Society  
 American Society of Mammalogists  
 North American Moose Conference and Workshop  
 Circumarctic *Rangifer* Monitoring and Assessment Network (CARMA)

### ***Service (academic, professional and public):***

University of Alaska Fairbanks  
 Associate Science Director, Robert G. White Large Animal Research Station, 2005-present  
 Member, Research Advisory Committee, Institute of Arctic Biology, 2005-2007  
 Member, Teaching Advisory Committee, Department of Biology and Wildlife, 2008-present  
 Member, Graduate School Travel Grant Committee, 2006-present  
 Organizer, Workshop on analysis of animal space use, 29-30 June 2009  
 Proposal reviewer, Center for Global Change  
 Outside examiner, PhD comprehensive exam (2), PhD defense (1)

National Science Foundation  
 Proposal reviewer

World Conservation Union (IUCN)  
 Member, Antelope Specialists Group, Species Survival Commission, 2004-present  
 Participant, 5<sup>th</sup> Conservation Assessment and Management Planning (CAMP) Workshop for the Arabian Peninsula, Emirate of Sharjah, February 2004

The Wildlife Society  
 President-elect, Alaska chapter, 2008-2010  
 Chair, organizing committee, Alaska Chapter annual meeting, 2009  
 Executive Committee, Alaska Chapter, 1988, 1992  
 Secretary-Treasurer, Alaska Chapter, 1988  
 Organizing committee, Northwest Section Annual Meeting, 1987

American Society of Mammalogists

- Co-chair of organizing committee, 89<sup>th</sup> Annual Meeting, 2009
- Resolutions committee, 2003-2005
- Organizing committee, 59<sup>th</sup> Annual Meeting, 1979
- North American Moose Conference and Workshop
  - Associate Editor, *Alces*, 1997- 2002
  - Co-Editor, *Alces Supplement 2*, 2002
  - Organizing committee, 4<sup>th</sup> International Moose Symposium, Alaska, 1997
  - Organizing committee, 27<sup>th</sup> North American Moose Conference and Workshop, 1991
  - Chair, Alaska Interagency Moose Meeting, 1991
- Manuscript referee
  - Alces*, *Biological Journal of the Linnean Society*, *Conservation Ecology*, *Conservation Genetics*, *Conservation Genetics Resources*, *Ecography*, *Ecology*, *Journal of Mammalogy*, *Journal of Wildlife Management*, *Marine Ecology Progress Series*, *Molecular Phylogenetics and Evolution*, *Oryx*, *Polar Biology*, *Wildlife Society Bulletin*
- Alaska Department of Fish and Game,
  - Chair, Bison Transplant Review Committee, 2007
- National Audubon Society, Alaska State Office
  - Board of Scientific Advisors, 1998-2002, 2005-present
- Friends of Creamer's Field
  - Board of Directors, 2006-2008
- Camp Habitat, Fairbanks, Alaska
  - Board of Advisors, 2007-2008

## PAST, CURRENT, AND PENDING GRANTS

### *Pending*

- ◇ North Pacific Research Board, 2010-2013, \$258,303, Assessing diets of ice-associated pinnipeds in the Chukchi and Bering seas using a quantitative molecular approach. (co-PI)

### *Current*

- ◇ Coastal Marine Institute, Minerals Management Service, 2009-2011, \$9850, Population connectivity in Bering, Chukchi and Beaufort snow crab populations: estimating spatial scales of disturbance impacts (collaborator)
- ◇ Alaska Department of Fish and Game, 2009-2011, \$96,000, Estimating wolf populations in Southeast Alaska using non-invasive DNA sampling (PI)
- ◇ Alaska Department of Fish and Game, 2009-2014, \$365,000, Ecological and landscape-level correlates of mortality in Sitka black-tailed deer fawns (PI)
- ◇ Alaska Fish and Wildlife Foundation, 2009-2011, \$50,000, Origin and history of Teshekpuk Lake caribou (PI)

### *Past*

- ◇ Alaska EPSCoR, 2008, \$30,000, Landscape Genetics of Alaskan Wildlife: Effects of Changing Environments on Population Structure (PI)
- ◇ US Fish and Wildlife Service Challenge Cost-Share Agreement, 1998, \$14,000: Genetic effects of a wolf translocation to the Kenai Peninsula (co-PI)
- ◇ Boone and Crockett Club, Grant-in aid of research, 1995, \$5,000: Effects of selective harvest on population genetics of moose (co-PI)
- ◇ Boone and Crockett Club, Grant-in-aid of research, 1994, \$5,000: Effects of selective harvest on population genetics of moose (co-PI)
- ◇ Mazamas, Grant-in-aid of research, 1979, \$500: Food selection and juvenile survival in Nuttall's cottontails in central Oregon (co-PI)

## COLLABORATORS (LAST 5 YEARS)

- ◇ Dr. Mike Heaton, USDA Meat Animal Research Center
- ◇ Dr. Winston Smith, US Forest Service
- ◇ Dr. Sanjay Pyare, University of Alaska Southeast

- ◇ Dr. Kimberlee Beckmen, Alaska Dept. of Fish and Game
- ◇ Dr. David Person, Alaska Dept. of Fish and Game
- ◇ Dr. Jennifer Schmidt, University of Alaska Fairbanks
- ◇ Dr. Terry Bowyer, Idaho State University
- ◇ Dr. Knut Kielland, University of Alaska Fairbanks
- ◇ Dr. Greg Finstad, University of Alaska Fairbanks
- ◇ Dr. Gary Kofinas, University of Alaska Fairbanks
- ◇ Dr. Alexander Kitaysky, University of Alaska Fairbanks
- ◇ Dr. Christine Hunter, University of Alaska Fairbanks
- ◇ Dr. Sarah Mincks Hardy, University of Alaska Fairbanks
- ◇ Ms. Tania Lewis, National Park Service
- ◇ Mr. Brian Person, North Slope Borough

### **CERTIFICATIONS, HONORS AND AWARDS**

- ◇ Marie Curie Fellow, Mammal Research Institute, Polish Academy of Sciences, Bialowieza, Poland, 2010
- ◇ Distinguished Moose Biologist Award, North American Moose Conference and Workshop, 2007
- ◇ Certified Wildlife Biologist, The Wildlife Society, Washington, DC, USA
- ◇ The Wildlife Society Group Achievement Award 1992 (awarded to the Kenai Moose Research Center during my tenure)
- ◇ Penn State School of Forest Resources, Ferguson-Cope Forestry Award 1977-78
- ◇ Xi Sigma Pi (Forestry Honor Society); President, Penn State Chapter, 1977-78
- ◇ Gamma Sigma Delta (Agriculture Honor Society)

### **UNIVERSITY TEACHING EXPERIENCE**

University of Alaska Fairbanks (tenure-track faculty member)

- ◇ Wildlife Management Principles
- ◇ Ecology and Management of Large Mammals (I designed this course)
- ◇ Conservation Genetics (I designed this course)
- ◇ Wildlife Management Techniques

University of Alaska Southeast, Juneau (part time Instructor)

- ◇ Introduction to Biology

Oregon State University, Corvallis (Teaching Assistant)

- ◇ Wildlife Biology–Mammals
- ◇ Wildlife Biology–Birds
- ◇ Wildlife Population Dynamics
- ◇ Principles of Wildlife Conservation
- ◇ Wildlife Management Techniques
- ◇ Commercial Fisheries Seminar

### **MANUSCRIPTS IN REVIEW (Bold name = graduate student, Bold name = undergraduate)**

**Brinkman, T. J.**, D. K. Person, F. Stuart Chapin, III, W. Smith, and K. J. Hundertmark.  
Submitted. Estimating abundance of Sitka black-tailed deer using DNA from fecal pellets. Journal of Wildlife Management.

### **PUBLICATIONS (Bold name = student author)**

41. **Brinkman, T.J.**, D.K. Person, M.K. Schwartz, K.L. Pilgrim, K.E. Colson, and K.J. Hundertmark. Accepted for publication. Individual identification of Sitka black-tailed

- deer (*Odocoileus hemionus sitkensis*) using DNA from fecal pellets. Conservation Genetics Resources.
40. Wronski, T., T. Wachter, R. L. Hammond, K. Hundertmark, O. B. Mohammed, S. Omer, W. Macasero, M. Plath, R. Tiedemann, and C. Bleidorn. Accepted for publication. Two reciprocally monophyletic mtDNA lineages elucidate the taxonomic status of mountain gazelles (*Gazella gazella*). *Systematics and Biodiversity*.
  39. Hundertmark K. J., and L. J. Van Daele. 2010. Founder effect and bottleneck signatures in an introduced, insular population of elk. *Conservation Genetics* 11:139-148.
  38. **Brinkman, T. J.**, M. K. Schwartz, D. K. Person, K. L. Pilgrim, and K. J. Hundertmark. In press. Effects of time and rainfall on PCR success using DNA extracted from deer fecal pellets. *Conservation Genetics*. DOI 10.1007/s10592-009-9928-7
  37. Hundertmark, K. J. 2009. Reduced genetic diversity in two introduced and isolated moose populations in Alaska. *Alces* 45:137-142.
  36. **Brinkman, T. J.**, and K. J. Hundertmark. 2009. Sex identification of northern ungulates using low quality and quantity DNA. *Conservation Genetics* 10:1189-1193.
  35. **Schmidt, J. I.**, K. J. Hundertmark, R. T. Bowyer, and K. G. McCracken. 2009. Population structure and genetic diversity of moose in Alaska. *Journal of Heredity* 100:170-180.
  34. Hundertmark, K. J. 2007. Home range, dispersal and migration. Pages 303-335 in A. W. Franzmann and C. C. Schwartz, eds. *Ecology and management of the North American moose*. 2<sup>nd</sup> edition. University Press of Colorado. Boulder, Colorado.
  33. Hundertmark, K. J., R. T. Bowyer, G. F. Shields, C. C. Schwartz, and M. H. Smith. 2006. Colonization history and taxonomy of moose *Alces alces* in southeastern Alaska inferred from mtDNA variation. *Wildlife Biology* 12:331-338.
  32. Fulton, D. C., and K. J. Hundertmark. 2004. Assessing the effects of a selective harvest system on moose hunters' behaviors, beliefs, and satisfaction. *Human Dimensions of Wildlife* 9:1-16.
  31. Hundertmark, K. J. and R. T. Bowyer. 2004. Genetics, evolution and phylogeography of moose. *Alces* 40:103-122.
  30. Aschfalk, A., K. J. Hundertmark, H. R. Bendiksen, J. M. Arnemo, and N. Denzin. 2003. Serosurvey for antibodies against *Salmonella* species in free-ranging moose (*Alces alces*) from Norway. *Berliner und Münchener Tierärztliche Monatsschrift* 116:417-420.
  29. Hundertmark, K. J., R. T. Bowyer, G. F. Shields, and C. C. Schwartz. 2003. Mitochondrial phylogeography of moose (*Alces alces*) in North America. *Journal of Mammalogy* 84:718-728.
  28. Bowyer, R. T., **K. M. Stewart**, B. M. Pierce, K. J. Hundertmark, and W. C. Gasaway. 2002. Geographical variation in antler morphology of Alaskan moose: putative effects of habitat and genetics. *Alces* 38:155-165.
  27. Bubenik, G. A., and K. J. Hundertmark. 2002. Accessory antlers in male Cervidae. *European Journal of Wildlife Research* 48:10-21.
  26. Hundertmark, K. J., G. F. Shields, R. T. Bowyer, and C. C. Schwartz. 2002. Genetic relationships deduced from cytochrome-b sequences among moose. *Alces* 38:113-122.
  25. Hundertmark, K. J., G. F. Shields, I. G. Udina, R. T. Bowyer, A. A. Danilkin, and C. C. Schwartz. 2002. Mitochondrial phylogeography of moose (*Alces alces*): late Pleistocene divergence and population expansion. *Molecular Phylogenetics and Evolution* 22:375-387.

24. White, K. S., H. N. Golden, K. J. Hundertmark and G. R. Lee. 2002. Predation by Wolves, *Canis lupus*, on Wolverines, *Gulo gulo*, and an American Marten, *Martes americana*, in Alaska. *Canadian Field-Naturalist* 116:132-134.
23. Hundertmark, K. J., and C. C. Schwartz. 2002. Evaluation of bioelectrical impedance analysis as an estimator of body composition of moose. *Wildlife Society Bulletin*. 30:915-921.
22. **Spaeth, D. F.**, K. J. Hundertmark, R. T. Bowyer, P. S. Barboza, T. R. Stephenson, and R. O. Peterson. 2001. Incisor arcades of Alaskan moose: is dimorphism related to sexual segregation? *Alces* 37:217-226.
21. Stephenson, T. R., **J. A. Crouse**, K. J. Hundertmark, and M. A. Keech. 2001. Vitamin E, selenium, and reproductive losses in Alaskan moose. *Alces* 37:201-206.
20. **Stephenson, T. R.**, K. J. Hundertmark, C. C. Schwartz, and V. Van Ballenberghe. 1998. Prediction of body fat and body mass in moose with ultrasonography. *Canadian Journal of Zoology* 76:717-722.
19. Hundertmark, K. J. 1998. Home range, dispersal and migration. Pages 303-335 in A. W. Franzmann and C. C. Schwartz, eds. *Ecology and management of the North American moose*. Smithsonian Institution Press. Washington, D.C., USA.
18. Hundertmark, K. J. and C. C. Schwartz. 1998. Predicting body mass of Alaskan moose (*Alces alces gigas*) using body measurements and condition assessment. *Alces* 34:83-89.
17. Hundertmark, K. J., T. H. Thelen, and R. T. Bowyer. 1998. Effects of population density and selective harvest on antler phenotype in simulated moose populations. *Alces* 34:375-383.
16. Rodgers, A. R., S. M. Tomkiewicz, E. J. Lawson, **T. R. Stephenson**, K. J. Hundertmark, P. J. Wilson, B. N. White, and R. S. Rempel. 1998. New technology for moose management: a workshop. *Alces* 34: 239-244.
15. Schwartz, C. C., T. R. Stephenson, and K. J. Hundertmark. 1997. Xylazine immobilization of moose with yohimbine or tolazoline as an antagonist: a comparison to carfentanil and naltrexone. *Alces* 33:33-42.
14. Hundertmark, K. J., and C. C. Schwartz. 1996. Considerations for intensive management of moose in Alaska. *Alces* 32:15-24.
13. Schwartz, C. C., D. L. Harmon, K. J. Hundertmark, C. T. Robbins, and B. A. Lintzeñich. 1996. Carbohydrase activity in the pancreas and small intestine of moose and cattle. *Alces* 32:25-30.
12. **Stephenson, T. R.**, J. W. Testa, G. P. Adams, R. G. Sasser, C. C. Schwartz, and K. J. Hundertmark. 1995. Diagnosis of pregnancy and twinning in moose using ultrasonography and serum assay. *Alces* 31:167-172.
11. Schwartz, C. C., S. L. Monfort, P. H. Dennis, and K. J. Hundertmark. 1995. Fecal progesterone concentration as an indicator of the estrous cycle and pregnancy in moose. *Journal of Wildlife Management* 59:580-583.
10. Schwartz, C. C., K. J. Hundertmark, and E. F. Becker. 1994. Growth of moose calves conceived during the first versus second estrus. *Alces* 30:91-100.
9. Hundertmark, K. J., T. H. Thelen, and C. C. Schwartz. 1993. Genetic and population effects of selective harvest systems in moose: a modeling approach. *Alces* 29:225-234.
8. **Stephenson, T. R.**, K. J. Hundertmark, C. C. Schwartz, and V. Van Ballenberghe. 1993. Ultrasonic fat measurement of captive yearling bull moose. *Alces* 29:115-123.

7. Schwartz, C. C., and K. J. Hundertmark. 1993. Evaluation of hay as a supplemental feed for moose. *Alces* 29:135-147.
6. Schwartz, C. C., and K. J. Hundertmark. 1993. Reproductive characteristics of Alaskan moose. *Journal of Wildlife Management* 57:454-468.
5. Hundertmark, K. J., P. E. Johns, and M. H. Smith. 1992. Genetic diversity of moose from the Kenai Peninsula, Alaska. *Alces* 28:15-20.
4. Schwartz, C. C. K. J. Hundertmark, and T. H. Spraker. 1992. An evaluation of selective bull moose harvest on the Kenai Peninsula, Alaska. *Alces* 28:1-13.
3. Schwartz, C. C., K. J. Hundertmark, and W. R. Lance. 1991. Effects of R51163 on intake and metabolism in moose. *Journal of Wildlife Diseases* 27:119-122.
2. Hundertmark, K. J., W. L. Eberhardt, and R. E. Ball. 1990. Winter habitat use by moose in southeastern Alaska: implications for forest management. *Alces* 26:108-114.
1. Verts, B. J., S. D. Gehman, and K. J. Hundertmark. 1984. *Sylvilagus nuttallii*, a semiarbooreal lagomorph. *Journal of Mammalogy* 65:131-135.

### SELECTED ORAL AND POSTER PRESENTATIONS

- 2009 ◇ Circumarctic Rangifer Monitoring and Assessment Network (CARMA), Vancouver, BC: “Genetic differentiation of caribou and reindeer herds in northern Alaska” (poster with K. Mager and K. Colson)
- ◇ Research Colloquium, Department of Natural Resources and Environmental Science, University of Nevada, Reno, “Conservation genetics of Arabian ungulates”
- ◇ 45<sup>th</sup> North American Moose Conference and Workshop, Pocatello, Idaho: “Would a moose by any other name smell as sweet: genetics, taxonomy, and why there is only one species of moose.” Invited capstone presentation.
- ◇ 89<sup>th</sup> Annual Meeting of the America Society of Mammalogists, Fairbanks, Alaska: “Genetics and taxonomy of moose: one or two species?” (with R. T. Bowyer)
- ◇ 89<sup>th</sup> Annual Meeting of the America Society of Mammalogists, Fairbanks, Alaska: “Lousy wolves: Distribution of *Trichodectes canis*, an invasive ectoparasite of Alaska gray wolves” Poster (poster with T. M. Woldstad, K. Beckmen, and C. Gardner)
- ◇ 89<sup>th</sup> Annual Meeting of the America Society of Mammalogists, Fairbanks, Alaska: “Influence of sex, age and winter severity on mountain goat survival in coastal Alaska” Poster (poster with K. White et al.)
- ◇ 89<sup>th</sup> Annual Meeting of the America Society of Mammalogists, Fairbanks, Alaska: “Estimating deer density in Alaska using DNA from fecal pellets” (with T. Brinkman and D. Person)
- ◇ 89<sup>th</sup> Annual Meeting of the America Society of Mammalogists, Fairbanks, Alaska: “Fine-scale genetic structure of a large ungulate in Alaska” (with K. Colson, T. Brinkman, and D. Person)
- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Fairbanks, Alaska: “DNA-based estimates of deer density in southeast Alaska.” (with T. Brinkman and D. Person)
- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Fairbanks, Alaska: “Distribution of *Trichodectes canis* within Alaska: an invasive ectoparasite of Alaska gray wolves.” (with T. Woldstad, K. Beckmen, and C. Gardner)
- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Fairbanks, Alaska: “Sex identification of northern ungulates using low quality and quantity DNA” (poster with T. Brinkman)

- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Fairbanks, Alaska: “Genetic assignment of caribou and reindeer” (poster with K. Colson)
- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Fairbanks, Alaska: “Lousy wolves: habitat assessment and predictive distribution modeling for *Trichodectes canis* within Alaska gray wolves” (poster with T. Woldstad, K. Beckmen, C. Gardner, and F. Huetmann)
- ◇ 39<sup>th</sup> Annual International Arctic Workshop, Lewiston, Maine: “Tracking ecological change from earliest human arrival in Alaska to the present: the Quartz Lake-Shaw Creek Flats multidisciplinary project.” (poster with D. Klein et al.)
- 2008 ◇ 6<sup>th</sup> International Moose Symposium, Yakutsk, Russia: “Historical effects of climate change on moose distribution, demography, and genetic diversity.”
- ◇ 6<sup>th</sup> International Moose Symposium, Yakutsk, Russia: “Population structure and genetic diversity of moose in Alaska.” (with J. Schmidt, K. McCracken, and R. T. Bowyer)
- ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Anchorage, Alaska: “Dynamics of lipid reserves in moose.” (with T. Stephenson and C. Schwartz)
- 2007 ◇ Annual Meeting of the Alaska Chapter of The Wildlife Society, Juneau, Alaska: “Founder effect in an introduced population of elk.” (with L. Van Daele)
- 2005 ◇ 9<sup>th</sup> International Mammalogical Congress (formerly International Theriological Congress), Sapporo, Japan (invited presentation): “Life history strategies, morphology and phylogenetics of tahr (*Hemitragus* spp.): evolutionary convergence of 3 taxa.” A contribution to a symposium entitled “Large mammals: landscapes and life histories.”
- ◇ 12<sup>th</sup> Annual Conference of The Wildlife Society, Madison, Wisconsin: “When is a tahr not a tahr? systematics, taxonomy and conservation of a little-known group of mountain ungulates.
- 2004 ◇ 3<sup>rd</sup> Annual Meeting of the Africa and Middle East Section of the Wildlife Disease Association, Abu Dhabi, United Arab Emirates: “Molecular characterization of *Brucella* infecting Arabian sand gazelle (*Gazella subgutturosa marica*) in Saudi Arabia” (with OB Mohammed, SA Omer and WV Macasero)
- ◇ 3<sup>rd</sup> Annual Meeting of the Africa and Middle East Section of the Wildlife Disease Association, Abu Dhabi, United Arab Emirates: “Inbreeding increases mortality in captive gazelles” (poster; with GI Hobbs)
- ◇ 18<sup>th</sup> Annual Meeting of the Society for Conservation Biology, New York, New York: “Phylogenetics, taxonomy and conservation of tahr”
- ◇ 84<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Arcata, California: “Historical range expansion and demographics of moose: a role for Holocene climate reversals?”
- 2003 ◇ 1<sup>st</sup> International Conservation Genetics Conference, American Genetic Association, Front Royal, Virginia: “Population structure, conservation units and taxonomy of mountain gazelles”
- 2002 ◇ 5<sup>th</sup> International Moose Symposium [invited presentation], Hafjell, Norway: “Evolution and genetics of moose”
- ◇ 53<sup>rd</sup> AAAS Arctic Science Conference, Fairbanks, Alaska [invited presentation]: “Colonization of North America by moose: a phylogeographic perspective”
- 2001 ◇ Ph.D. dissertation defense, University of Alaska Fairbanks: “Phylogeography of moose (*Alces alces*): genetic signatures of population history”

- ◇ 81<sup>st</sup> Annual Meeting, American Society of Mammalogists, Missoula, Montana: “Mitochondrial phylogeography of moose (*Alces alces*): late Pleistocene divergence and population expansion”
- ◇ 52<sup>nd</sup> AAAS Arctic Science Conference, Anchorage, AK: “Mitochondrial phylogeography of moose (*Alces alces*): late Pleistocene divergence and population expansion”
- ◇ 52<sup>nd</sup> AAAS Arctic Science Conference, Anchorage, AK: “Founder effect in a translocated population of elk”
- 2000 ◇ 36<sup>th</sup> North American Moose Conference and Workshop, Whitehorse, YT: “Phylogeography of North American Moose”
  - ◇ 36<sup>th</sup> North American Moose Conference and Workshop, Whitehorse, YT: “Dynamics of lipid reserves in moose” (poster)
- 1999 ◇ 35<sup>th</sup> North American Moose Conference and Workshop, Grand Portage, MN: “Spike-fork/50” revisited: Biological analysis of selective harvest in 4 areas of Alaska”
- 1998 ◇ Euro-American Mammal Congress (invited presentation), Santiago de Compostela, Spain: “Phylogeography of North American moose: evidence for a new theory of colonization”
- 1997 ◇ 4<sup>th</sup> International Moose Symposium, Fairbanks, Alaska: “Effect of population density and selective harvest on antler phenotype in simulated moose populations”
  - ◇ 4<sup>th</sup> International Moose Symposium (invited presentation), Fairbanks, Alaska: “Application of genetic techniques to moose management” presented as part of “New technology for moose management: a workshop”
- 1995 ◇ 31<sup>st</sup> North American Moose Conference and Workshop, Fundy National Park, New Brunswick: “Considerations for intensive management of moose in Alaska”
- 1993 ◇ University of Alaska Fairbanks graduate seminar: “Genetic investigations of moose”
  - ◇ University of Alaska Fairbanks graduate lecture on wildlife nutrition: “Models and methods for estimating body composition in wildlife”
  - ◇ 29<sup>th</sup> North American Moose Conference and Workshop, Bretton Woods, New Hampshire: “Genetic and population effects of selective harvest systems in moose: a modeling approach”
- 1992 ◇ Alaska Biodiversity Conference, Anchorage, Alaska: “Managing to ensure viable wildlife populations and habitats in Alaska”
  - ◇ 28<sup>th</sup> North American Moose Conference and Workshop, Algonquin Park, Ontario: “Genetic variability of moose on the Kenai Peninsula, Alaska”
  - ◇ 28<sup>th</sup> North American Moose Conference and Workshop, Algonquin Park, Ontario: “Urinary chemistry profiles of supplementally-fed moose”