

S. Craig Gerlach Curriculum Vitae

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CITIZENSHIP: United States

EDUCATION

1989 Ph.D., Anthropology; Brown University
1977 M.A., Anthropology; University of Oklahoma
1975 B.A., Anthropology; BS Zoology; University of Oklahoma

CURRENT EMPLOYMENT, UNIVERSITY OF CALGARY

2013-18 Professor, Department of Anthropology; Academic Coordinator, Sustainability

PROFESSIONAL EMPLOYMENT, UNIVERSITY OF ALASKA

2009-13 Professor, Center for Cross Cultural Studies and the Alaska Native Knowledge Network
2006-10 Professor, Resilience and Adaptation Program (IGERT), Institute of Arctic Biology
2002-06 Associate Professor, Resilience and Adaptation Program (IGERT), Institute of Arctic Biology
1995-06 Associate Professor, Anthropology
1997-00 Curator, Archaeology, University of Alaska Museum of the North
1995-96 Acting Director, University of Alaska Museum of the North
1991-01 Assistant Professor, Anthropology
1991-95 Assistant Professor, Anthropology and Quaternary Science
1986-89 Director, Alaska Quaternary Center
1988-89 Assistant Professor, Archaeology, University of Alaska Museum of the North
1988-89 Acting Curator, Archaeology, University of Alaska Museum of the North

OTHER FACULTY APPOINTMENTS, UNIVERSITY OF ALASKA

2013-16 Affiliate Research Professor, International Arctic Research Center
2007-13 Senior Research Scientist, Center for Alaska Native Health Research and the Institute of Arctic Biology
2004-13 Associate Research Professor, Engineering and Science Technology Experiment Station
2005-09 General Editor, Anthropological Papers of the University of Alaska, New Series
2004-06 Director, Chancellor's Sustainable Campus Initiative, University of Alaska Fairbanks

HONORS AND AWARDS

2007 Dean's Award, Research and Sponsored Activities, UAF
2007 Dean's Award, Teaching and Service, College of Liberal Arts, UAF
2007 Nominee, Usibelli Distinguished Research Award, UAF
2006 Nominee, Usibelli Distinguished Service Award, UAF
1998-2013 Who's Who Among America's Teachers
1996-2013 Phi Kappa Phi
1994 Nominee, Usibelli Distinguished Teaching Award, UAF
1988 Rural Alaska Honors Institute Award of Appreciation. UAF

CURRENT RESEARCH

My current research emphasizes sustainable food, water and energy systems, with a focus on the intersection of climate, weather socioeconomics, policy, community health, food security and sovereignty, rural community infrastructure, community and industrial development. Complementary research interests include food security, sustainable community design, food systems geography, human-wildlife, human-livestock interactions, historical toxicology, and stability and change in long-term patterns of land and natural resource use. All of this research is collaborative, and involves close and on-going work with Alaska Natives and specialists in engineering and architecture, hydrology, Cooperative Extension Service, animal science, integrated pest management, crop and soil scientists, fisheries biologists, and the nutritional, health and epidemiological sciences.

A new and on-going research area focuses on how farmers and livestock growers are coping with climate change, on increasing the capacity of local crop and stock growers to produce local foods for local, regional and statewide consumption, and on the social vulnerability of Alaska's coastal communities, including an emphasis on infrastructure, energy, water, food, health, climate, climate change and weather (meteorological change). In the summer of 2012 we also began a project on the Kenai Peninsula, Alaska, working with both fishermen and farmers, and with their responses to ecosystem change, climate and weather impacts, and regulatory frameworks. These projects are funded by grants from NOAA and the USDA.

I served on the National Research Council and the National Academy of Science Panel on Cumulative Effects of North Slope Oil and Gas Development, and on the Human Dimensions of the Arctic System Science Steering Committee (HARC/ARCSS), along with other NSF panels and review committees. In recent years my research emphasis has been in Alaska and other high latitude areas, but I also have ethnographic experience in Canada, Siberia, Mexico and Africa, and continue to work on a research initiative with US and African collaborators to examine similarities and differences in rural vulnerability to climate, drought, and socioeconomic change, infrastructure, and on food and water shortages from Alaska to Africa. Another new initiative called the "Northern Borderlands Project" attempts to do the same, but the focus here is from the southern borderlands of Mexico to the northern borderlands of Alaska and Canada, and with collaborators from University of Arizona, the University of Saskatchewan, the University of Victoria, and the Sonora Institute.

I continue to consult with the oil and gas industry in both the United States and Canada, and work with federal and state agencies, primarily the National Oceanic and Atmospheric Administration, on improving community-based oil spill response, and on subsistence and land use in a context of industrial development. I continue to serve on the International Union for the Conservation of Nature, Bison Specialist Working Group, and I was recently appointed to the Science Advisory Panel for the University of New Hampshire/NOAA, Office of Response and Restoration, Coastal Response Research Center for 2013-2016; in this capacity I report directly to the Vice Provost for Research at the University of New Hampshire.

RESEARCH GRANTS (2000-PRESENT)

- 2012 Sustainable Futures North: Food, Water and Energy Security in a Changing Arctic 09/01/2013-08/31/2016. National Science Foundation: Arctic SEES. P.A. Loring, **S.C. Gerlach**, A. Mahoney, J. Walsh, H. Huntington, S. Gearheard, and L. Hamilton. In Review, submitted October 15, 2012. \$1,650,000.00.
- 2012-13 Western Alaska Coastal Community Vulnerability to, and Monitoring of Environmental Marine Forcing: The Role of Sea Ice Berm Formation to later Marine Forcing in West Alaska Coastal Communities. U.S. Fish and Wildlife Service WESTERN ALASKAN LANDSCAPE COOPERATIVE, \$90,000.00. D.E. Atkinson, **S.C Gerlach** and H. Eiken.

- 2010-2013 Social Vulnerability of Alaska's Coastal Communities. \$370,000.00. National Oceanic and Atmospheric Administration, **S.C. Gerlach** and D.E Atkinson.
- 2011-2013 Regional Assessments of Vulnerability and Environmental Security (RAVENS). Phase 1: Water Security in a Changing Coastal Environment. National Oceanic and Atmospheric Administration, \$300,000. P.A. Loring, **S.C. Gerlach**, and W. Schnabel.
- 2011-2013 Identifying Strategies to Develop Sustainable Livestock Production Systems. United States Department of Agriculture/NIFA, \$48,845.00. J Rowell, **S.C Gerlach**, M. Shipka, T. Paragi, and J. Greenberg.
- 2008-2015 Social Vulnerability to Climate Change in the Alaskan Coastal Zone. National Oceanic and Atmospheric Administration, \$1,370,00.00 D.E. Atkinson, **S.C. Gerlach**, and U. Batt.
- 2006-2011 Alaska Center for Climate Assessment and Policy (ACCAP). National Oceanic and Atmospheric Administration, Climate Program Office, \$2,859,762.00. D. White, **S.C. Gerlach**, and J. Walsh.
- 2003-2012. IGERT: Global-Local Interactions: Resilience and Adaptation of Social-Ecological Systems in a Rapidly Changing North. National Science Foundation, \$3,146,075.00. G. Kofinas, F.S. Chapin III, and **S.C Gerlach**.
- 2003-2005 Sustainability and Stewardship Alaska. National Science Foundation, Office of Polar Programs, \$350,000.00. **S.C. Gerlach** and L. K. Duffy.

PUBLICATIONS

Peer-Reviewed Journal Articles

- In Press Rebuilding Northern Foodsheds, Sustainable Food Systems, Community Well-Being and Food Security. **S.C. Gerlach** and P.A. Loring, *International Journal of Circumpolar Health*, Submitted and Accepted, June 1, 2013.
- In Press Sled Dogs as Indicators of Climate Change and Resultant Contaminant Fate and Transport Along the Yukon River, Alaska, L.K. Duffy, K. Dunlap, A. Reynolds, and **S.C. Gerlach**. 15th *Proceeding of the International Circumpolar Health Congress*. Submitted and Accepted, October 15, 2012
- 2013 "The New Environmental Security: Linking Water, Food Systems, and Community Development. Research Commentary: Food Systems Research Priorities over the Next 5 Years. P.A. Loring, **S.C. Gerlach** and H. Huntington. *Journal of Agriculture, Food Systems and Community Development*, ISSN: 2152-0801 online; www.AgDevJournal.com.
- 2013 Local Perceptions of Sustainability among Fishermen of Alaska's Highly Contested Cook Inlet Salmon Fisheries. P. A. Loring, **S.C. Gerlach**, and H.L. Harrison. *Society and Natural Resources*, 0:1-15. Copyright @ 2013 Taylor & Francis Group, LLC. ISSN: 0894-1920 print/1521-0723 Online. DOI: 10.1080/08941920.2013.819955. Routledge, Taylor&Francis Group.
- 2013 Seafood as Local Food: Food Security and Locally Caught Seafood in Alaska's Kenai Peninsula. P.A. Loring, **S.C. Gerlach**, and H. L. Harrison. *Journal of Agriculture, Food Systems and Community Development*, ISSN: 2152-0801 on line, www.AgDevJournal.Com, pp. 1-18.
- 2013 Adaptive and Transformative Capacity. In, *Arctic Resilience Report*, Lance Gunderson and Carl Folke, editors. Gary Kofinas, lead author, **S.C Gerlach**, F.S. Chapin III, and nine other authors listed alphabetically. Stockholm Resilience Center.

- 2013 Grazing Systems for Alaskan Diversified Livestock: New Ideas, Experiments and Practices. J. Rowell, M. Shipka, and **S.C. Gerlach**. *Agroborealis* 43:18-22.
- 2012 Rebuilding Alaskan Foodsheds: No Shortage of Good Ideas. **S.C. Gerlach** and P. A. Loring. *Rural Connections*, 2 (6): 23-25.
- 2012 Selected Plasma Fatty Acid Levels in Subsistence Fed Sled Dogs Along the Yukon River: A Pilot Study for Biomonitoring. K.L Dunlap, A. J. Reynolds, L. K. Duffy, **S.C. Gerlach**, P.A. Loring M. Cleroux and J.P. Godin. *Polar Record* 48(2): 177-183.
- 2011 Mercury Interferes with Endogenous Antioxidant Levels in Yukon River Subsistence-Fed Sled Dogs. K.L. Dunlap, A. J. Reynolds, **S.C. Gerlach**, and L.K. Duffy. *Environmental Research Letters* 6 (October-December 2011) 044015 doi:10. 1088/1748-9326/6/4/044015: 1-5.
- 2011 Ways to Help and Ways to Hinder: Governance for Successful and Sustainable Livelihoods in an Uncertain Climate. P.A. Loring, **S.C. Gerlach**, D.E Atkinson, M.S. Murray. *Arctic* 64(1): 73-88.
- 2011 Food Security and Red Meat Production in Alaska. T.F. Paragi, **S.C. Gerlach** and A.M. Meadow. *Agroborealis* 41 (1): 36-37.
- 2010 Food Security and Conservation of Yukon River Salmon: Are We Asking Too much of the Yukon River? P. A. Loring and **S.C. Gerlach**. *Sustainability*, ISSN 2071-1050. Sustainability 2012, 2965-2987; doi 3390/su2092965.
- 2010 Outpost Gardening in Interior Alaska: Food System Innovation and the Alaska Native Gardens of the 1930s-1970s. P. A. Loring and **S.C. Gerlach**. Pp. 1-24. *Ethnohistory* 57 (2): 183-199.
- 2009 CIEP and RIA Protein Residue Analysis on "Fluted Points" from Northern Alaska. J. Reuther, **S.C. Gerlach**, and J. Lowenstein. *Current Research in the Pleistocene* 26: 109-111.
- 2009 Food, Culture and Human Health: An Integrative Health Approach to Food Security. P. A. Loring and **S.C. Gerlach**. *Environmental Science and Policy* 12 (2009): 466-478.
- 2008 The Services Oriented Architecture: Ecosystem Services as a Framework for Diagnosing Change in Social Ecological Systems. P. A. Loring, F.S. Chapin, and **S.C. Gerlach**. *Ecosystems* 11 (1): 478-489.
- 2007 Food and Water Security in a Changing Arctic Climate. In Focus Issue: Northern Hemisphere High Latitude Climate and Environmental Change. D. White, **S.C. Gerlach**, P. A. Loring, and A. Tidwell *Environmental Research Letters* 2 (045018): 1-5.
- 2007 The Ecological Future of the North American Bison: Conceiving Long-Term, Large-Scale Conservation of a Species. E. Sanderson lead, with authorship alphabetical (29 authors). *Conservation Biology* 22 (2): 252-266.
- 2007 The Influence of Human Activity in the Arctic on Climate and Climate Impacts. H.P. Huntington, M. Boyles, G. Flowers, J. Weatherly, L. Hamilton, L. Hinzman, **S.C. Gerlach**, R. Zeluta, C. Nicolson, and J.T. Overpeck. *Climatic Change*, 82:77-92.
- 2007 Identification of Animal Species by Protein Radioimmunoassay of Bone Fragments and Blood Stained Stone Tools. J. Lowenstein, J. Reuther, D. Hood, G. Scheuenstuhl, **S.C. Gerlach**, and D. Ubelaker. *Forensic Science International* 159 (2-3): 182-188.
- 2006 An Exploratory Study of Total Mercury Levels in Archaeological Caribou Hair from Northwest Alaska. **S.C. Gerlach**, L.K. Duffy, M.S. Murray, P.M. Bowers, R. Adams, and D.A.

- Verbugge. *Chemosphere* 65: 1909-1914.
- 2006 CIEP Residue Analysis of an Alaskan Archaeological Conundrum. J. R Reuther and **S.C. Gerlach**. *Current Research In The Pleistocene* 23: 138-140.
- 2006 The Use of an Improved pRIA Technique in the Identification of Protein Residues. J.R. Reuther, J. Lowenstein, **S.C. Gerlach**, D. Hood, G. Sheuenstuhl, and D. Ubelaker. *Journal of Archaeological Science* 33: 531-536.
- 2005 Stability and Change in the Use of Place at the Kame Terrace Site, Anaktuvuk Pass, Alaska. R.O. Mills, **S.C. Gerlach**, and P.M. Bowers. *Anthropological Papers University of Alaska, New Series* 4 (1): 27-58.
- 2005 Arctic System on Trajectory to New Seasonally Ice-Free State. J.T Overpeck, M.Sturm, J.A. Francis, D.K. Preovich, M.C. Serreze, E. Carmack, FS Chapin III, **S.C. Gerlach**, L.C. Hamilton, L.D. Hinzman, M, Holland, H.P. Huntington, J.R Key, A.H. Lloyd, G.M. McDonald. T.D. Prowse, P. Schlosser, and C. Vorsmarty. *EOS, Transactions of the American Geophysical Union* 86 (34): 309-316.
- 2005 A Note on Mercury Levels in the Hair of Alaskan Reindeer. L. K. Duffy, R. S. Duffy, **S.C. Gerlach**, and G. Finstad. *Science of the Total Environment* 339 (1-3): 273-76.
- 2005 Testing the "Dicarb Problem:" A Case Study from North Alaska. J.R. Reuther and **S.C. Gerlach**. *Radiocarbon* 47 (3): 359-366.
- 1996 Blood Protein Residues on Lithic Artifacts from Two Archaeological Sites in the De Long Mountains, Northwestern Alaska. **S.C. Gerlach**, M. Newman, and E. Knell. *Arctic* 49 (1): 1-10.
- 1995 Chukchi Hotspots, Paleo-polynas, and Caribou Crashes: Climatic and Ecological Dimensions of North Alaska Prehistory. O.K. Mason and **S.C. Gerlach**. *Arctic Anthropology*, 32 (1): 101-130.
- 1993 Bowhead Whale (*Balaena mysticetus*) Length Estimations Based on Scapula Measurements. **S.C. Gerlach**, C. George, and R. Suydam. *Arctic* 46 (1): 55-59.
- 1992 Calibrated Radiocarbon Dates and Cultural Interaction in the Western Arctic. O.K. Mason and **S.C. Gerlach**. *Arctic Anthropology* 29 (1): 54-78.
- 1988 Stone Tools, Rifle Shells, and Caribou: Seasonal Use of An Historic Tent Ring in the Western Brooks Range, Alaska. **S.C. Gerlach**, R.J. Dale, G. Selinger, and E.S. Hall, Jr. *Journal of Northern Sciences* 2: 1-22.

Peer Reviewed Monographs and Edited Volumes

- In Rev *NUNAMIULU AMAGUGLU*. Nunamiut and Wolves: Local Knowledge from the Inland Inupiat of Northern Alaska. *Anthropological Papers University of Alaska New Series* 5. **S.C. Gerlach** and J. Nageak, editors and contributors; with B. Lopez, R.O. Stephenson, G. Spearman, R. T. Ahgook, Arctic John Etalook, J. Mekiana, and other Nunamiut Elders. 227 pages. University of Alaska Press.
- 2013 Food Security on the Kenai Peninsula, Alaska: A Report on Local Seafood Use, Consumer Preferences, and Community Needs. P.A. Loring, **S.C. Gerlach**, and H.L Harrison. *WERC-HD Occasional Report Series* No. 01, Fairbanks, Alaska: Water and Environmental Research Center, the Center for Cross Cultural Studies and the Alaska Native Knowledge Network, University of Alaska Fairbanks. J. Brooke Gamble, Series Editor. 38 pp.

- 2010 *Scaling Studies in Arctic System Science Support and Policy*. (Multiple authors listed alphabetically). C. Vorosmarty, A.D. McGuire, and J.E. Hobbie, general editors. US Arctic Research Commission, Arlington, Virginia.
- 2003 *Cumulative Environmental Effects of Alaskan North Slope Oil and Gas Activities*. National Academy Press, Washington, D.C. (**S.C. Gerlach**, co-author with National Research Council Committee). 700 pages.
- 2001 *People and Wildlife in Northern North America, Essays in Honor of R. Dale Guthrie*. *British Archaeological Reports, International Series*. Oxford University Press. **S.C. Gerlach** and M.S. Murray, editors. 250 pages.
- 1991 *Coastal Erosion and Salvage Archaeology at Utqiagvik, Alaska: The 1990 Excavation of the Mound 44 Slump Block*. Final report to the City of Barrow and the North Slope Borough Commission on History, Language and Culture. Owen K. Mason, **S.C. Gerlach**, and Stefanie L. Ludwig, editors. Occasional Paper 4, Alaska Quaternary Center, Fairbanks, Alaska. 122 pages
- 1985 *In the National Interest: A Geographically Based Study of Anaktuvuk Pass Inupiat Subsistence Through Time*. E.S. Hall Jr., **S.C. Gerlach**, and M. Blackman. Special Monograph, North Slope Borough, Planning Department, and Commission on History, Language, Culture. Barrow, Alaska. Two Volumes, 175 plus pages, and land use maps (Volume 2).

Peer Reviewed Articles in Edited Volumes

- In Press Correlation in Antioxidant Status with Environmental Stress in a Sled Dog Model. K.L. Dunlap, A. Reynolds, **S.C. Gerlach**, and L.K. Duffy. In, *Oxidative Stress in Applied Basic Research and Clinical Practice: Studies in Veterinary Medicine and Applications in Clinical Practice*. Springer, Humana Press.
- In Press Coming to Terms with Rural Alaska Foodways. **S.C. Gerlach**, A. Turner, and P. Loring. In, *Circumpolar Environmental Science: Current Issues in Resources, Health and Policy*. K. Erickson and L. Duffy, editors. University of Alaska Press.
- 2011 Environmental Change, Food Systems, and Community Needs in Rural Alaska. **S.C. Gerlach**, P.A. Loring, A. Turner, and D.E. Atkinson. *North By 2020, Perspectives on Alaska's Changing Social-Ecological Systems*. A. Lovcraft and H. Eicken, editors. University of Alaska Press, Fairbanks, Alaska.
- 2011 Food Traditions and Food Systems in Rural Alaska. **S.C. Gerlach**, L. Henry, and A. Turner. In, *Land and Environment in the North*, Chapter 10, pp. 223-249. A. Duffy, L.K. Duffy, J. Kelley, and K. Erickson, editors. Arctic Division of the American Association for the Advancement of Science and the Center for Cross Cultural Studies, University of Alaska Fairbanks.
- 2010 History of Bison in North America. B. A. Potter, **S.C. Gerlach**, and C.C. Gates. In, *American Bison, Status Survey and Conservation Guidelines 2010*, Chapter 2, pp. 5-12, edited by C. Cormack Gates, Curtis H. Freese, Peter J.P. Grogan, and Mandy Kortzman. IUCN, Species Survival Commission. Gland, Switzerland: IUCN.
- 2001 Wood Bison in Late Holocene Alaska and Adjacent Canada: Paleontological, Archaeological and Historical Records. R.O. Stephenson, **S.C. Gerlach**, R.D. Guthrie, and others. In, *People and Wildlife in Northern North America: Essays in Honor of R. Dale Guthrie*. **S.C. Gerlach** and M.S. Murray, editors, Pp. 47-62. *British Archaeological Reports, International Series*. Oxford University Press.

- 2001 Late Holocene Environmental and Cultural Changes at Tukuto Lake, Northwestern Alaska. W. Oswald, **S.C. Gerlach**, and others. In, *People and Wildlife in Northern North America, Essays in Honor of R. Dale Guthrie*. **S.C. Gerlach** and M.S. Murray, editors, Pp. 89-94. British Archaeological Reports, International Series. Oxford University Press.
- 1996 Historical Archaeology and the Early 20th Century Reindeer Herding Frontier on the Northern Seward Peninsula. **S.C. Gerlach**. In, *Ublasaun, First Light, Inupiaq Hunters and Herders in the Early Twentieth Century, Northern Seward Peninsula, Alaska*, J. Schaaf, editor, Pp. 94-98. Alaska System Support Office, U.S. Department of Interior, National Park Service Alaska Field Area, Shared Beringian Heritage Program.
- 1996 Two Sites on Red Dog Creek, De Long Mountains, Alaska. **S.C. Gerlach** and E.S. Hall, Jr. In, *American Beginnings: The Prehistory and Paleoecology of Beringia*, F. H. West, editor, Pp. 490-496. University of Chicago Press.
- 1995 The Archaeological Imagination, Zooarchaeological Data, and the Origins of Whaling in the Western Arctic, and Old Whaling and Choris Cultures. O.K. Mason and **S.C. Gerlach**. In, *Hunting the Largest Animals, Native Whaling in the Western Arctic and Sub-Arctic*, A.P. McCartney, editor, Pp. 1-32. Canadian Circumpolar Institute Occasional Publication No. 36, Studies in Whaling No. 3.
- 1988 The Later Prehistory of Northern Alaska, The View from Tukuto Lake. **S.C. Gerlach** and E.S. Hall, Jr. In *The Late Prehistoric Development of Alaska's Native People*, R. Shaw, R.K. Harritt, and D.E. Dumond, editors, Pp. 107-135. Aurora, Alaska Anthropological Publication Series.

Book Reviews, Published Notes, Selected Newsletter and Encyclopedia Entries

- 2010 Book Review: "*Learning Native Wisdom, What Traditional Cultures Teach us about Subsistence, Sustainability and Spirituality*" by Gary Holthaus. **S.C. Gerlach** and P. A. Loring. *The Northern Review* 32: 191-195.
- 2010 "*Learning Native Wisdom, What Traditional Cultures Teach Us about Subsistence, History, Sustainability and Spirituality*" by Gary Holthaus. **S.C. Gerlach**. *Agricultural History* 84(2): 263-264.
- 2009 The Tuluq Hill, Onion Portage, Mosquito Lake and Tukuto Lake Sites: Brooks Range, Northern Alaska: A Complex Prehistoric Record of a Variety of Cultural Adaptations. B. A. Potter and **S.C. Gerlach**. In, *Archaeology of America*, Vol. 4, West Coast/Subarctic/, edited By F. P. McManamon, L. Cordell, K. Lightfoot, and G. Milner, pp. 318-321. Greenwood Press, Westport, CT, and London.
- 2008 The Security of the Red Meat Supply in Alaska. T. Paragi, **S.C. Gerlach**, and Alison Meadow. *Alaska Farm Bureau Newsletter*, August.
- 1998 Choris Culture. **S.C. Gerlach**. In, *Archaeology of Prehistoric Native America*, G. Gibbon, editor, Pp 149-150. Garland Publishing, Inc.
- 1998 Ipiutak Culture. **S.C. Gerlach**. In, *Archaeology of Prehistoric Native America*, G. Gibbon, editor, Pp. 392-393. Garland Publishing, Inc.
- 1991 Invited Book Review of *A Victorian Earl in the Arctic: The Travels and Collections of the Fifth Earl of Lonsdale, 1888-89* by S. Krech III. **S.C. Gerlach**. *American Indian Quarterly*, Spring 1991: 263-265.
- 1991 Invited Book Review of *The Eskimos* by E.S. Burch, Jr. **S.C. Gerlach**. *American Indian Quarterly*,

Spring 1991: 265-266.

CONFERENCE PRESENTATIONS AND INVITED LECTURES

Invited

- 2013 Planning for Coastal Community Impacts of Climate Change. **S.C. Gerlach**, P.A. Loring, H. Penn and W. Schnabel. Alaska Forum on The Environment, February 7, 2013, Dena'ina Convention Center, Anchorage, Alaska.
- 2012 Holistic Resource Management and Creating Pasture with Livestock: Getting to Know Tamworth Hogs. **S.C. Gerlach** and T. Paragi. Feeding and Grazing Practices for Multiple Species in Alaska: Problems and Prospects. October 18-19, 2012, Grandview Inn Wasilla and the Palmer Center for Sustainable Living, Matanuska Experiment Farm. United States Department of Agriculture.
- 2012 Rebuilding Northern Foodsheds: Sustainable Food Systems, Community Well-Being and Food Security. **S.C. Gerlach** and P. Loring. Featured Topic Presentation, 15th International Congress on Circumpolar Health, August 5-10, Fairbanks, Alaska. Sponsored by the Center for Disease Control and the American Society for Circumpolar Health.
- 2012 Responding to Change. **S.C. Gerlach** and P. A. Loring. Invited Plenary Speaker, Responding to Arctic Environmental Change, Translating our Growing Understanding into a Research Agenda for Action, an International Study of Arctic Change (ISAC) Workshop, January 30-Feb 1, 2012. Queens University, Kingston, Ontario, Canada.
- 2012 Food Security and Policy in Alaska. What is the Role of Local Food Systems? **S.C. Gerlach** and P. A. Loring. 29th Annual Alaska Health Summit, Anchorage, Alaska, January 23-25, 2012.
- 2012 Sustainable Northern Farms, Northern Food and Livestock Systems. **S.C. Gerlach**, R. Mikol, T. Paragi, P. A. Loring and D. Helfferich. Invited Plenary Speaker, Sustainable Livestock Conference, Anchorage, Alaska, October 13-14, 2012.
- 2011 Alaska Native Foodways In Transition. P. A. Loring and **S.C. Gerlach**. Denali National Park, Murie Science Center, July 11, 2011.
- 2010 Rural and Alaska Native Food Systems. Food Security, Food System Innovation, Policy Barriers and Constraints. **S.C. Gerlach** and P.A. Loring. Invited Plenary Talk, Alaska Food Policy Council, Alaskan Economy-Alaskan Security-Alaskan Health. Alaska Food Policy Council, May 18-19, 2010. Anchorage, Alaska.
- 2010 Workshop: Applications of Sustainability Science in Alaska: Issues and Opportunities. Workshop Organizer and Panel Moderator, Resilience and Adaptation Program, University of Alaska Fairbanks, April 9, 2010.
- 2010 Food Security in Alaska. Invited Speaker, Panel Moderator, and Exhibitor. Sustainable Agriculture and Organic Growers School and USDA/Western SARE Conference. Princess Hotel, March 16-19, Fairbanks, Alaska.
- 2010 Food Security, Local Food Production, and Agricultural Policy. **S.C. Gerlach**, T. Paragi, and H. Geier. Sustainable Community Action Network of Fairbanks, Noel Wien Library, February 22, 2010, Fairbanks, Alaska.
- 2009 The Intersection of Environmental Variability, Policy, and Human Values: Observing, Understanding and Responding to Change. International Treaties, Yukon River Salmon, and Food Security in a Changing Arctic. **S. C. Gerlach**, P. A. Loring, D. Atkinson, and M. S. Murray.

- American Geophysical Union Fall Meeting, December 14-18, 2009, San Francisco, California.
- 2009 Climate and Environmental Change in the Yukon Flats, Alaska: Local Observations and Issues in a Meteorological framework. **S. C. Gerlach**, W. Schneider, D. Atkinson and S. Stephens. Energy/Environment/Natural Resource Summit, October 19-21, 2009, Fort Yukon, Alaska.
- 2009 Coming to Terms with Northern Foods, Northern Futures. Invited Plenary Speaker. **S.C. Gerlach**, L.K. Duffy, and P.A. Loring. *Sustainability as a Way of Life: Learning, Practice and Experience. A Symposium of the 90th Annual Meeting of the AAAS, Pacific Division, California Academy of Sciences. August 18, 2009.* San Francisco, California.
- 2009 Climate Change, Food Systems and Community Needs in Alaska. **S.C. Gerlach**, P.A. Loring, and D.E. Atkinson. Inland Northern Research Alliance Conference. *Lessons from Continuity and Change in the Fourth International Polar Year.* March 4-7, 2009, Fairbanks, Alaska.
- 2009 Ways to Help and Hinder: Climate, Weather and Policy in Alaska. P.A. Loring, **S.C. Gerlach**, and D.E. Atkinson. Inland Northwest Research Alliance Conference. *Lessons from Continuity and Change in the Fourth International Polar Year.* March 4-7, 2009. Fairbanks, Alaska.
- 2008 Conceptualizing and Mapping the Extent of Change in Human Systems: linkages to the 2007 Sea Ice Minimum. M.S. Murray, **S. C. Gerlach**, D.A. Atkinson, and P. A. Loring. *American Geophysical Union Fall Meeting, San Francisco, California, December 15-19.*
- 2008 Adaptive Governance of Northern Resources in Times of Change. G. Kofinas, F.S. Chapin III, **S.C. Gerlach**, and B. Josef. *Growing Sustainability Science in the North: The Resilience of the People of the Arctic. AAAS Arctic Division Annual Meeting, Fairbanks, Alaska, Fairbanks, Alaska, September 15-17.*
- 2008 Coming to Terms with Northern Foods, Northern Futures. Invited Lecturer, *Evening at Egan Lecture Series*, University of Alaska Southeast. **S.C. Gerlach**. September 5, 2008. Recorded video of lecture prepared for distribution to Alaska Public television; available upon request from the University of Alaska Southeast, Juneau, Alaska.
- 2008 Climate Change and Alaska Communities: Infrastructure and Food Security Issues. Alaska State Cabinet and *Alaska Municipal League, Anchorage, Alaska, May 29, 2008.* **S.C. Gerlach** and D. Atkinson.
- 2008 The Future of Northern Food Systems. **S. C. Gerlach**, Chair and Panel Moderator. 2008 Meeting of the *American Association for the Advancement of Science, Arctic Division, Fairbanks, Alaska, September 15-17.*
- 2008 Coming into the Foodshed. P.A. Loring and **S.C. Gerlach**. *American Association for the Advancement of Science, Arctic Division, Fairbanks, Alaska, September 15-17, 2008.*
- 2008 Coming to Terms with the Future of Northern Food Systems: Tipping Points as a Proxy for Understanding Change. Invited Plenary Speaker, *Tipping Points, the Arctic and Global Change, Arctic Forum*, Arctic Research Consortium of the United States, Washington, DC. May 15, 2008. **S.C. Gerlach** and P.A. Loring.
- 2008 What is the Future of Wild Game in Alaska Food Systems? *Annual Meeting of the Alaska Chapter of the Wildlife Society, Anchorage, Alaska, April 22-24.* T. Paragi, **S.C Gerlach** and P. A. Loring.
- 2008 Climate change, surface water, and food security in Alaska. *International Conference on Food Security and Environmental Change, Oxford, England.* P. Loring and **S.C Gerlach**.

- 2007 The Impacts of Climate Change on Rural Food Systems and Health. 2007 *Alaska Health Summit*. Anchorage, Alaska. **S.C. Gerlach**, P. Loring, and L.K. Duffy.
- 2007 Country Foods, Health and Nutrition in Changing Alaskan Ecosystems. *Second Annual Alaska Biomedical Conference*, Fairbanks, Alaska. **S.C. Gerlach** and P. A. Loring.
- 2007 Alaska Center for Climate Assessment and Policy, A Roadmap for the Future. *RISA PI Meetings*, National Oceanic and Atmospheric Administration and Scripps Oceanographic Institute, Jolla, California, February 27- March 1, 2007.
- 2006 Introducing the Alaska Center for Climate Assessment and Policy. *Collaboration on Climate Change Research, Faculty Workshop*, University of Alaska Fairbanks and University of Alaska Anchorage, Geophysical Institute and IARC, UAF. Fall 2006. **S.C. Gerlach**.
- 2006 The International Polar Year, 2007/08: Meeting the Challenge at UAF. *Alaska Forum on the Environment*, Anchorage, Alaska, February 6, 2006. D. White, **S.C. Gerlach**, J. Walsh and the RISA Working Group, University of Alaska.
- 2005 Human-Climate Interactions and Human Security in the Arctic. *Human Security and Climate Change – An International Workshop*, Center for International Climate and Environmental Research (CICERO), University of Oslo, Oslo Norway, June 21-23 2005. M.S. Murray, H.P. Huntington, M. Boyle, L. Hamilton, G. Flowers, C. Deser, **S.C. Gerlach**, L. Hinzman, A. Lloyd, B. Morehouse, C. Nicolson, J. Overpeck, J. Weatherly, R. Zeluta.
- 2005 Linking the Past to the Present and Planning for the Future: Human and Ecosystem Health in the Gulf of Alaska. *International GLOBEC Symposium, Climate Variability and Sub-Arctic Marine Ecosystems*, Victoria, British Columbia, Canada, May 16-20, 2005. M. S. Murray, L.K. Duffy, **S.C. Gerlach**, A.C. Hirons, and J. Schaaf.
- 2005 On the Use of Oral History in Wildlife Management and Restoration Ecology. *The Wood Bison Advisory Group Meeting*, Fairbanks, Alaska, June 7-8, 2005, Alaska Department of Fish and Game. **S.C. Gerlach**.
- 2005 History of Wood Bison and Potential for Restoration in Alaska and Yukon. *IUCN Species Survival Commission*, Bison Specialist Group (North America), Vermejo Park Ranch, Raton, New Mexico. May 7-9, 2005. **S.C. Gerlach**, C. Fleener, and R.O Stephenson.
- 2004 Long-Term Perspectives on Biocomplexity in the Gulf of Alaska. Paper presented in the session Complex Environmental Systems, Chemistry, and High Latitudes. *2004 American Association for the Advancement of Science*, Annual Meeting, Seattle, Feb 12-16 2004. M.S. Murray, L.K. Duffy, **S.C. Gerlach**, and T. Lefrancois.
- 2003 On the Use of Historical Proxies in Wildlife Management and Conservation Biology in Alaska and Canada. Paper for the symposium “Archaeological Approaches to Contemporary Environmental Issues” at the *36th Annual Meeting of the Canadian Archaeological Association*, May 8-10, 2003, Hamilton Ontario. **S.C. Gerlach** and A. Turner.
- 2003 Assessing Mercury Levels in Ancient and Modern Alaskan Caribou: Implications for Community and Ecosystem Health. Paper for the symposium “Archaeological Approaches to Contemporary Environmental Issues” at the *36th Annual Meeting the Canadian Archaeological Association*, May 8-10, 2003, Hamilton Ontario. **S.C. Gerlach**, L. K. Duffy, and M. S. Murray.

Contributed Conference Presentations

- 2010 From the Bering Sea to Canada: Food Security and the Yukon River Salmon. P. A. Loring, **S.C.**

- Gerlach**, and D. Atkinson. Ecosystems 2010: The 29th Lowell Wakefield Symposium. November 8-11, 2010. Anchorage, Alaska.
- 2010 Are We Asking Too Much of the Yukon River? P.A. Loring and **S.C. Gerlach**. The Arctic Forum, 2010. March 16-19, 2010, Miami, Florida.
- 2009 Ways to Help or Hinder: Matching Climate and Policy in Alaska. P.A. Loring, **S.C. Gerlach**, and David Atkinson. *Lessons from Continuity and Change in the Fourth International Polar Year SYMPOSIUM*, March 4-7, 2009. Presented by Inland Northwest Research Alliance (INRA) and UAF, 2007-2009 International Polar Year Alaska. Fairbanks, Alaska.
- 2009 Climate Change, Food Systems, and Community Needs in Alaska. D.E. Atkinson, **S.C. Gerlach**, and P. A. Loring. *Lessons from Continuity and Change in the Fourth International Polar Year SYMPOSIUM*, March 4-7, 2009. Presented by Inland Northwest Research Alliance (INRA) and UAF, 2007-2009 International Polar Year Alaska. Fairbanks, Alaska.
- 2009 Adaptation to Social-Ecological Changes: Comparative Dimensions in Natural Resources Based Livelihoods in Alaska, Africa and Switzerland. C.I. Speranza, H. Huntington, **S.C. Gerlach**, P.A. Loring, M.E. Ahmed, B. Kiteme, A. Wallner, and M. Rarieya. German Development Institute Conference, Bonn, Switzerland, April 28, 2009.
- 2008 Eat, Prey, Hg. Climate Change Impacts and Circulating Biomarkers of Effect Along the Yukon River: Sled Dogs as Potential Sentinels of Vulnerabilities for Rural Populations. K. L. Dunlap, P. A. Loring, A. J. Reynolds, **S.C. Gerlach**, M. S. Murray, and L. K. Duffy. Alaska Quicksilver Summit, Anchorage, Alaska, December 15-17, 2008.
- 2007 Country Foods, Community Health and Nutrition in Gwich'in Ecosystems. *3rd Annual University of Alaska Biomedical Research Conference*. April 12-13. Fairbanks, Alaska. **S.C. Gerlach**, L.K. Duffy, and P. A. Loring.
- 2005 Mercury, Alaska and Archaeological Chemistry. *60th Northwest Regional and Small Chemical Businesses Meeting*, Fairbanks, Alaska. L.K. Duffy, M.S. Murray and **S.C. Gerlach**.
- 2004 Synthesis and Connections: Directions in the Intellectual Development of HARC. Paper for the session Social Science in Human Dimensions Research: Issues and Potential, *International Council of Arctic Social Sciences, ICASS V Conference*, Fairbanks, May 19-23, 2004. M.S. Murray, H. Huntington, C. Nicholson, D. Ferguson, J. B. Fitzhugh, B. Forbes, **S.C. Gerlach**, L. Hamilton, B. Moorehouse, A. Ogilvie, and A.Voinov.
- 2004 Synthesis and Connections: Directions in the Intellectual Development of HARC. Paper for the session Patterns in Human Responses to Environmental Variation and Change, *American Association for the Advancement of Science 55th Arctic Science Conference - Human Dimensions of the Arctic Environment*, Anchorage, 29 September – 1 October 2004. M.S. Murray, H. Huntington, C. Nicholson, D. Ferguson, J. B. Fitzhugh, B. Forbes, **S.C. Gerlach**, L. Hamilton, B. Moorehouse, A. Ogilvie, and A.Voinov.
- 2004 Can Archaeological Samples Provide Evidence of Change in Mercury Levels Through Time? *American Association for the Advancement of Science 55th Arctic Science Conference, Human Dimensions of the Arctic Environment*. Anchorage, 29 September – 1 October 2004. L.K. Duffy, **S.C. Gerlach**, M.S. Murray, T. LeFrancois, R. Rothschild, and P.M. Bowers.
- 2003 Preliminary Comparison of Mercury Levels in Ancient and Modern Alaskan Arctic Caribou. *Sixth Annual Electric Utilities Environmental Conference – Air Quality and Global Climate Change*. January 27-30, Tucson. L.K. Duffy, **S.C. Gerlach**, and M.S. Murray.

- 2002 Blood Residue Analysis and Alaskan Archaeology. *29th Annual Meeting of the Alaskan Anthropological Association*, Anchorage, April 4th-6th 2002. J.D. Reuther and **S.C. Gerlach**.
- 2002 New Dates from an Interior ASTt site in the Arctic Foothills of Northern Alaska. *35th Annual Meeting of the Canadian Archaeological Association*, Ottawa, May 16th-18th. J.D. Reuther, **S.C. Gerlach**, and C. Gelvin-Reymiller.
- 2002 New Dates from an Interior Archaeological site in the Arctic Foothills of Northern Alaska. *29th Annual Meeting of the Alaskan Anthropological Association*, Anchorage, April 4th-6th 2002. J.D. Reuther, **S.C. Gerlach**, and C. Gelvin-Reymiller.
- 2001 Blood Residue Analysis and Alaskan Archaeology. *9th Annual Arctic Archaeology Conference*, Salt Lake City. J.D. Reuther and **S.C. Gerlach**.
- 2001 Counting Coup or Counting Calories: The Role of Whaling in Thule Origins and the Eastern Expansion. *34th Annual Meeting of the Canadian Archaeological Association*, May 9-13, Banff, Alberta, Canada. **S.C. Gerlach** and M.S. Murray.

Selected Published Conference Proceedings and Abstracts

- 2009 Ways to Help or Hinder: Matching Climate and Policy in Alaska. P.A. Loring, **S.C. Gerlach**, and D.E. Atkinson. *Lessons from Continuity and Change in the Fourth International Polar Year SYMPOSIUM*, March 4-7, 2009. Proceedings, pp. 127-131. Presented by Inland Northwest Research Alliance (INRA) and UAF. Copies of this publication are available from Inland Northwest Research Alliance, Telephone: (208) 524-4800.
- 2009 Climate Change, Food Systems and Community Needs in Alaska. **S.C. Gerlach**, P.A. Loring, and D.E. Atkinson. *Lessons from Continuity and Change in the Fourth International Polar Year SYMPOSIUM*, March 4-7, 2009. Proceedings, pp. 113-117. Presented by Inland Northwest Research Alliance (INRA) and UAF. Copies of this publication are available from Inland Northwest Research Alliance, Telephone: (208) 524-4800.
- 2008 Rapid Arctic Change: Mapping the Extent of Change on Arctic Systems. M. Murray, D.E. Atkinson, **S.C. Gerlach**, and P. A. Loring. *EOS Transactions of the American Geophysical Union* 89 (53). Fall Supplement. San Francisco, Poster and Presentation Abstract A51E-0162.
- 2008 What is the Future Role of Wild Game in Alaska Food Systems? T. Paragi and **S.C. Gerlach**. *Annual Meeting of the Alaska Wildlife Chapter*, Anchorage, Alaska, April 22-24, 2008. Abstract Proceedings, pp. 26-27.
- 1992 A 1000-Year Record of Temperature Variation as Reconstructed from Tree Rings in Northwest Alaska. *43rd Arctic Science Conference Program and Proceedings*, September 8-12, 1992, Valdez, Alaska, p. 93.
- 1992 Long-Term Trends in Temperature from Modern and Archaeological Tree-Ring Samples, Kobuk River, Alaska. **S. C. Gerlach** and L. Graumlich. *Program and Proceedings of the Alaska Anthropological Association, 9th Annual Meeting*, Fairbanks, Alaska, p. 21.

Conference Posters

- 2009 Ways to Help and Ways to Hinder: Policy for a Changing Climate. P.A. Loring, **S.C. Gerlach**, and D.E. Atkinson.
- 2008 *Large Scale Changes, Small-Scale Livelihoods*, for Tipping Points, the Arctic and Global Change, Arctic Forum, Arctic Research Consortium of the United States, Washington, DC. May 15, 2008. P. Loring and **S.C. Gerlach**.

- 2007 *Climate Change and Rural Alaskan Food Systems*. Alaska Forum on the Environment, February 15-17, 2007, Anchorage, Alaska. **S.C. Gerlach** and P. A. Loring

Other Conference Activities

- 2013 International Conference on Circumpolar Agriculture and Arctic Food Security Summit, Fairbanks, Alaska, September 26-28. Conference Co-Organizer, International Association of Circumpolar Agriculture, University of the Arctic, University of Saskatchewan and the University of Alaska Fairbanks. Girdwood, Alaska, September 28-October 1.
- 2012 15th International Congress on Circumpolar Health. August 5-10, Fairbanks, Alaska. Conference Steering Committee Member and Co-Organizer, Center for Disease Control and the American Society for Circumpolar Health.
- 2012 Alaska Fiber Production: From Agriculture to Art. Conference Co-Organizer, October 19-20, Palmer Center for Sustainable Living, Matanuska Experiment Farm.
- 2012 Feeding and Grazing Practices for Multiple Species in Alaska: Problems and Prospects. Conference Co-Organizer, Grandview Inn Wasilla and the Palmer Center for Sustainable Living, October 18-19.
- 2011 Sustainable Livestock Systems in Alaska. Conference CO-Organizer, Anchorage Sheraton Hotel, October 13-14, 2011.
- 2008 President (elected) of American Association for the Advancement of Science, Arctic Division; Organizer of AAAS Conference, Fairbanks, Alaska, September 15-17. *Growing Sustainability Science in the North, The Resilience of the People of the Arctic*.
- 2007 Co-Organizer, Food Supply Resilience, *Alaska Native Health Summit*, November, 2007, Anchorage, Alaska. **S.C Gerlach** and K. Fink (Alaska Native Tribal Health Consortium).
- 1999 Chair, Current Research in Circumpolar Archaeology. *26th Annual Meeting, Alaskan Anthropological Association*, March 31- April 3, Fairbanks, Alaska.
- 1996 Co-Organizer and Chair, Zooarchaeology in the North: Peoples and Animals in Alaska, the Arctic and Northwest North America. *23rd Annual Meeting of the Alaska Anthropological Association*, April 4-6, 1996.

INVITED WORKSHOPS

- 2012 Responding to Arctic Environmental Change, Translating Our Growing Understanding into a Research Agenda for Action. Final Workshop Report, pp. 1-32, International Study Of Arctic Change, Stockholm, Sweden. M.S. Murray, H. Eicken, S. Starkweather, **S.C. Gerlach**, B. Evangard, S. Gearheard, P. Schlosser, M.P. Karcher, D. McLennan, H. Epstein, N. Bock, C. Juillet, S. Graber, B. Labonte, K. Pletnikoff, N. Scott, M. Sommerkorn, M. Vardy, M. Vitale, I. Wagner, and J. Wandel.
- 2009 *Managing for Transition: Climate Change and Protected Areas in the Future*. World Wildlife Fund Workshop, March 17-20, 2009. ABISKO Research Station, Kiruna, Sweden.
- 2007 *Surface Transformations in the Arctic Environment*. Arctic System Science (ARCSS) Working Group. RCSS Working Group, Arctic Research Consortium of the United States Workshop, San Francisco. December, 2007. (Funded by ARCUS)
- 2007 *Community Workshop on Changing Beaver Populations in the Yukon River Watershed*, April 26-27, Emmonak, Alaska. Yukon River Intertribal Watershed Council. Funded by the

National Science Foundation.

- 2005 *IUCN Species Survival Commission, Bison Specialist Group* (North America), May 7-9, Vermejo Park Ranch, Raton, New Mexico.
- 2005 *Land, Atmosphere, Ice Interactions (LAI)*, ARCSS Workshop, Seattle, Washington. Funded by the National Science Foundation.
- 2004 *Second Arctic System Science Synthesis Workshop*, ARCSS Workshop, Lake Tahoe, California. Funded by the National Science Foundation and organized by the Arctic Research Consortium of the United States.
- 2003 *First Arctic System Science Synthesis Workshop*, ARCSS Workshop, Big Sky, Montana. Funded by the National Science Foundation and organized by the Arctic Research Consortium of the United States.
- 2003 *Human/Environment Interactions Research: Patterns, Connections and Methods Workshop, Human Dimensions of the Arctic System (HARC) Workshop*, Seattle, Washington. October 25-26, 2003. Funded by the National Science Foundation.
- 2003 *Biocomplexity in the Environment/Human Dimensions of the Arctic System Workshop*, Anchorage, Alaska November 11-13, 2002, (Funded by NSF).

MEDIA PRESENTATIONS

- 2013 Pocket Size Farm is home to the Perfect Pig. Article features my research in sustainable livestock production in high latitude areas. Fairbanks Daily News Miner, April 7, 2013
- 2011 The Future of Food. University of Alaska, College of Liberal Arts Special Edition, 10 pp. Focus on food and livestock production/red meat research by **SC Gerlach** and colleagues.
- 2011 Alaska needs more local food, a community perspective. S.C. Gerlach. Fairbanks Daily News Miner, Sunday, October 30, 2011.
- 2011 The Future of Alaska Food. By Brooke Sheridan, with focus on food systems research and projects by **SC Gerlach** and colleagues. Aurora 3 (2): 12-15.
- 2009 Environmental Science and Yukon River Fisheries: Problem and Prospects. Fort Yukon Public Radio. 18 August, 2009.
- 2008 Invited participant and discussant. Coming to Terms with Northern Foods, Northern Futures. National Public Radio, Juneau, Alaska, September 4, 2008.
- 2007 Invited participant and discussant, Food systems, food traditions and food security. Talk of the Nation, Ira Flato's "Science Friday." National Public Radio, Fairbanks, Alaska, June, 2007.

SELECTED TECHNICAL REPORTS, UNIVERSITY OF ALASKA

- 1999 Cultural Resource Survey of the National Missile Defense (NMD) Deployment Program: Fort Greeley and Fort Wainwright, Alaska. Report prepared for EDAW, Inc., Huntsville, Alabama. B.A. Potter, **S.C. Gerlach**, A.S. Higgs, and P.M. Bowers.
- 1999 Final Report for the Cultural Resources Mitigation of the Anaktuvuk Pass Runway Realignment Project in Anaktuvuk Pass, Alaska, 1998. Report prepared for LCMF, Incorporated, Anchorage, Alaska. R.O. Mills, **S.C. Gerlach**, P. M. Bowers, S. J. McIntosh.

- 1998 Preliminary Report on 1998 Archaeological Survey and Excavations in Anaktuvuk Pass, Alaska. In association with Vera Weber, Simon Paneak Museum. Report prepared for LCMF, Incorporated, Anchorage, Alaska. P. M. Bowers, R.O. Mills, and **S.C. Gerlach**.
- 1997 Archaeological Survey in the Vicinity of Red Dog Mine, Northwest Alaska. Report prepared for Cominco Alaska, Inc., Kotzebue, Alaska. P. M. Bowers, A. S. Higgs, **S.C. Gerlach**, and C. M. Williams.
- 1997 Chapter 5.5 Fairbanks and the American Frontier: From the Gold Rush to the Golden Heart. **S.C. Gerlach**, in Historical Development of the Chena River Waterfront: An Archaeological Perspective, Prepared for Alaska Department of Transportation and Public Facilities, Fairbanks, Alaska. P. Bowers and B. Gannon (compilers), **S.C. Gerlach**, Author.
- 1997 Survey and Evaluation of Archaeological Sites in the Aqqaluk Deposit and Areas Adjacent to Red Dog Mine, Alaska. Report prepared for Cominco Alaska, Inc., Kotzebue, Alaska. **S.C. Gerlach**, A. S. Higgs, and O. K. Mason.
- 1996 Archaeological Survey and Assessment of Prehistoric Cultural Resources on Eielson Air Force Base, Alaska. (September 25, 1996). Report submitted to Shannon and Wilson, Inc., Fairbanks and the US Army Corps of Engineers, Alaska District, Anchorage. 183 pp. **S.C. Gerlach**, S. J. McIntosh, P. M. Bowers, and O. K. Mason.
- 1996 Archaeological Survey and Assessment of Prehistoric Cultural Resources on Eielson Air Force Base, Alaska: Management Summary. (September 25, 1996). Report submitted to Shannon and Wilson, Inc., Fairbanks and the US Army Corps of Engineers, Alaska District, Anchorage. 26 pp. **S.C. Gerlach** and P.M. Bowers.

COMPLETED CONTRACTS, UNIVERSITY OF ALASKA

- 1998 Preparation of Final Report, The Historic Communities of Tofty and Coldfoot, Bureau of Land Management, U.S. Department of Interior, \$19,521.00.
- 1998 Archaeological Excavations at the Troth Yedda Site, University of Alaska Foundation, Endowment Research Fund, \$71,127.00.

FUNDED CURATORIAL ACTIVITIES - UA MUSEUM OF THE NORTH

- 1998 Cataloguing and Stabilization of Archaeological Collections, Bureau of Land Management, U.S. Department of Interior, \$19,987.00.
- 1998 Collections Transfer to Alutiiq Museum, Kodiak, Alaska, U.S. Fish and Wildlife Service, U.S. Department of Interior, \$925.00.
- 1998 Inventory, Stabilization, and Transfer of Bank Collection. Ounalashka Corporation, Dutch Harbor, Alaska, \$14,000.00.
- 1997 Inventory and Stabilization of Archaeological Collections, U.S. Fish and Wildlife Service, U.S. Department of Interior, \$5,000.00.
- 1997 Inventory and Stabilization of Historic Artifacts from Barnette Street Excavations, Alaska State Department of Transportation and Public Facilities, \$5,000.00.
- 1997 Native American Graves Protection and Repatriation Inventory and Compliance of the Lorenz River Overlook Site, U.S. Fish and Wildlife Service, U.S. Department of Interior, \$5,000.00.
- 1996 Inventory, Stabilization and Management of Archaeological Collections, National Park Service, U.S. Department of Interior, \$9,982.00.

- 1996 Compliance and Inadvertent Discovery Stipulation of the Native American Graves Protection and Repatriation Act, National Park Service Cooperative Agreement #9910- 69032, U.S. Department of Interior, \$20,000.00.
- 1993 Japanese American Multi- Disciplinary Study of the Ecology and Ethnoarchaeology of Even Reindeer Herding and the Agricultural Ecology of Yakut Farming in the Sakka Republic, Siberia.

TEACHING (2000-PRESENT)

Selected Graduate Courses

Ethnoecology	NRM 692
Comparative Farming and Sustainable Food Systems	GEOG/NRM/CCS 493
Sustainable Livelihoods and Community Well-Being	GEOG/NRM/CCS 693
Resilience and Adaptation: Global-Local Systems	ANTH/BIO/NRM 694
Sustainable Food Systems and Subsistence in Rural Alaska	CCS/NRM/GEOG 694
Qualitative and Quantitative Methods in Social and Natural Science Research	ANTH 692
Anthropological Background for Resilience and Adaptation	ANTH/BIO/NRM 692
Domestication and the Origins of Agriculture	ANTH/GEOG/NRM 692
Nutritional Ecology	ANTH 492/692
Agricultural Anthropology	ANTH 492/692

Selected Undergraduate Courses

Ethnobotany (Distance Delivery)	ANTH 293
Ecological Anthropology and Sustainability	ANTH 428
Senior Seminar: Integration of the Social and Natural Sciences	ANTH 411
Comparative Farming and Sustainable Food Systems	ANTH 454

SERVICE TO THE UAF ANTHROPOLOGY DEPARTMENT (past ten years)

2005-08	Editor, Anthropological Papers, University of Alaska
2007-08	Search Committee Member, Bioarchaeology Faculty
2005-06	Search Committee Member, Bioarchaeology Faculty
2004-05	Search Committee Member, Sociocultural Anthropology Faculty
1998-99	BS Curriculum Review, Bioarchaeology and Archaeology
1997-98	Chair, Biological Anthropology Search Committee
1996-97	Chair, Archaeology Search Committee

SERVICE TO THE UNIVERSITY OF ALASKA FAIRBANKS

2012-13	Chair, Interdisciplinary Program Review and Development Committee, Faculty Senate
2011-12	Chair, Curricular Affairs Committee, College of Liberal Arts and Faculty Senate
2009-present	Elected Member, Curricular Affairs Committee, College of Liberal Arts and Faculty Senate
2009-present	Indigenous Studies Steering Committee, Center for Cross Cultural Studies
2007-present	Ethnobotany Advisory Board, College of Rural and Community Development and Interior-Aleutians Campus, UAF
2007-present	Gaalee'ya STEM Advisory Committee Member, Interior-Aleutians Campus
2007-present	Steering Committee Member, Ethnobotany Certificate Program, Interior-Aleutians Campus
2007-08	Search Committee Member, Ethnobotany, Interior-Aleutians and Campus
2005-present	Scientific Steering and Advisory Committee Member. Alaska Center for Climate Assessment and Policy
2001-present	Science Steering Committee Member, Resilience and Adaptation Program.

Ongoing Interdisciplinary Graduate Education and Research Training Program (IGERT)
Lifetime Member, Ruth Croxton Memorial Scholarship Committee, University of Alaska
Foundation

2007-11 Search Committee Member, Center for Alaska Native Health Research; Nutritional
Epidemiology and Biostatistics.

2003-07 UAF Center for Global Change and CIFAR, Science Steering Committee, Co-Chair

2005-06 Chair, Graduate Program Review Committee, Integrated Physics Program

2004-05 Search Committee Member, Associate Director Center for Global Change and CIFAR,
Center for Global Change

2003-05 Chair, Chancellor's Sustainable Campus Initiative Steering Committee

2001-03 Member, Brina Kessel Medal for Excellence in Science Committee, UA Museum

2000-01 Member, University-Wide United Academics Promotion/Tenure Review Committee

1997-98 Member, Planning Committee for the New Century Museum Expansion, UA Museum

1997-98 Chair, Interdisciplinary Admission Review Committee, Graduate School, UAF

1995-97 Elected Member, Faculty Senate

1995-96 Board Member, Alaska Quaternary Center, UAF

1995-96 Member, Chancellor's Review Committee, UAF

PUBLIC SERVICE

2010-12 *Member, Governing Board, Alaska Food Policy Council*

2004-011 *Board Member, Calypso Farm and Ecology Center*

2004-05 *Graduate Student Supervisor and Volunteer, Howard Luke Community Garden*

1999-Present *Collaborator, with Alaska Dept. of Fish and Game, Division of Wildlife Conservation*

1999-Present *Consultant, for Council of Athabascan Tribal Governments, Fort Yukon, Alaska*

1999-Present *Judge for the local and district Science Fairs, Fairbanks North Star Borough District*

1997-03 *Faculty and Parent Volunteer, Pearl Creek Elementary School, Fairbanks North Star
Borough*

NATIONAL SCIENTIFIC SERVICE

2013-16 *Science Advisory Panelist, University of New Hampshire/NOAA, Office of Response and
Restoration, Coastal Response Center*

2011-12 *Advisor, NOAA, Coastal Response Center, University of New Hampshire, and Oil Spill
Response and Recovery Center, Seattle, Washington.*

2007-08 *President, American Association for the Advancement of Science, Arctic Division*

2006-present *Member: Review Board for PolarTrec, Teachers and Researchers Exploring and
Collaborating. For Arctic Research Consortium of the United States (ARCUS) and National
Science Foundation (NSF)*

1999-08 *Member: National Research Council (NRC) Committee on Cumulative Effects, Board on
Toxicology and the Environment*

2003-05 *Member: Human Dimensions of the Arctic System (HARC), Scientific Steering
Committee*

2000-11 *Peer review service for multiple professional journals, and funding agencies NSF, NOAA,
USDA, U.S. Environmental Protection Agency, ARCTICNET and Canada Research Council*

INTERNATIONAL SCIENTIFIC SERVICE

2008 *Invitation to participate on the Nature Reader Panel. Review and contribute to the
European Journal, Nature. Invitation from Editor and Chief, Dr. P. Campbell*

2005-11 *Member, International Union for the Conservation of Nature, Species Survival Commission,
Bison Specialist Group.*

Ongoing *Peer Reviewer - proposals: National Science Foundation, National Oceanic and Atmospheric*

Administration, US Department of Agriculture, Environmental Protection Agency,
ARCTICNET.

On going *Peer Reviewer - publications:* Arctic, Ecology and Society, Ecology and Society, Ecology, Society and Natural Resources, Sustainability, American Anthropologist, Human Organization, Agricultural History, Human Ecology, Global Environmental Change, Regional Environmental Change, Ecosystems, AlterNative, Ethnobiology.

PROFESSIONAL ASSOCIATIONS

Society for Economic Botany
American Society for Ethnobiology
Slow Food International
Society for Applied Anthropology
Ecological Society of America
American Geophysical Union

REFERENCES (listed alphabetically)

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Professor, Department of Geosciences
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Tucson, AZ 85721
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Milan Shipka
Associate Director/Program Chair
Professor, Animal Science; Extension Livestock
Specialist,
Agricultural and Forestry Experiment Station
High Latitude Agriculture
School of Natural Resources and Agricultural
Sciences
University of Alaska Fairbanks
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