

S. Craig Gerlach
Short Curriculum Vitae

School of Architecture, Planning and Landscape
University of Calgary
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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; University of Oklahoma

CURRENT EMPLOYMENT, UNIVERSITY OF CALGARY

2013-19 Professor, School of Architecture, Planning and Landscape; Academic Lead, Sustainability Studies: University of Calgary, Alberta
2013-22 Adjunct Professor, Department of Anthropology and Archaeology: University of Calgary, Alberta

PROFESSIONAL EMPLOYMENT, UNIVERSITY OF ALASKA

2014 Emeritus Professor, Center for Cross Cultural and Indigenous Studies
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

2017- Affiliate Professor, Institute of Northern Engineering: University of Alaska Fairbanks
2013- Affiliate Research Associate Professor, International Arctic Research Center (IARC)
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

1980 Recipient of the Watson Smith Award in Anthropology, Brown University

RESEARCH GRANTS (2000-PRESENT)

- 2019 Off-Grid Containerized Agriculture in the North. Anonymous Donors. \$540,000. H. Penn, A. Wilkinson, M. Zlomisc, S.C. Gerlach. Yukon Territory, Kluane Lake Research Station.
- 2017 Coupling infrastructure improvements to food-energy-water system dynamics in small cold region communities: MicroFEWs (Innovations at the Nexus of Food, Energy and Water Systems; Award No. 1740075). 01/15/2018-06/14/2021. National Science Foundation: INFEWS/T3. \$2,488,121.00. W. Schnabel, D. Huang, J. Schmidt, E. Whitney, E. Wies, S. Aggarwal, E. Dotson, **S.C. Gerlach**, H. Huntington, and H. Penn.
- 2016 Nunamiullu Amabullu. Nunamiut and Wolves: Local Knowledge from the Inland Iñupiat of Northern Alaska. U.S. National Park Service, grant to the Arctic Institute of North America, University of Calgary, \$25,000.00. Editors, **S.C. Gerlach** and P.A. Loring.
- 2013 Water, Energy, and Food Security in the North: Synergies, tradeoffs, and building community capacity for sustainable futures (Sustainable Futures North; Award No. 1263853). 09/01/2013-08/31/2016. National Science Foundation: Arctic SEES. \$1,650,000.00. P.A. Loring, **S.C. Gerlach**, A. Mahoney, J. Walsh, H. Huntington, S. Gearheard, and L. Hamilton.
- 2012-14 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.
- 2010-14 Social Vulnerability of Alaska's Coastal Communities. \$370,000.00. National Oceanic and Atmospheric Administration, **S.C. Gerlach** and D.E. Atkinson.
- 2011-13 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.
- 2011-13 Identifying Strategies to Develop Sustainable Livestock Production Systems. U.S. Department of Agriculture/NIFA, \$48,845.00. J. Rowell, **S.C. Gerlach**, M. Shipka, T. Paragi, and J. Greenberg.
- 2008-15 Social Vulnerability to Climate Change in the Alaskan Coastal Zone. National Oceanic and Atmospheric Administration, \$1,370,000.00 D.E. Atkinson, **S.C. Gerlach**, and U. Batt.
- 2006-11 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.
- 2003-12 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**.
- 2003-05 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

- 2018 Local Knowledge to Enhance Wildlife Population Health Surveillance: Conserving Muskoxen and Caribou in the Canadian Arctic. M. Tomaselli, S. Kutz, **S.C. Gerlach**, and S. Checkley. *Biological Conservation* 217:338-348. DOI: <https://doi.org/10.1016/j.biocon.2017.11.010>

- 2018 Iqaluktutiaq Voices: Local Perspectives about the importance of muskoxen contemporary and traditional use and practices. M. Tomaselli, **S.C. Gerlach**, S.J Kutz, S.L. Checkley, and the community of Iqaluktutiaq. *Arctic* 71(1):1-14.
- 2017 Muskox Health Ecology Symposium 2016: Gathering to Share Knowledge on Umingmak in a Time of Rapid Change. S. Kutz, J. Rowell, J. Adamczewski, A. Gunn, C. Cuyler, O.A. Aleuy, M. Austin, J. Berger, J. Blake, K. Bondo, C. Dalton, A. Dobson, J. Di Francesco, **S.C. Gerlach**, P. Kafle, F. Mavrot, J. Mosbacher, M. Murray, A. Nascou, K. Orsel, F. Rossouw, N. Schmidt, M. Sutor, M. Tomaselli, and B. Ytrehus. *Arctic* 70(2):225–236.
- 2017 Staying in Place During Times of Change in Arctic Alaska: The Implications of Attachment, Alternatives, and Buffering. H.P. Huntington, P.A. Loring, G. Gannon, S. Gearheard, **S.C. Gerlach**, and L.C. Hamilton. *Regional Environmental Change*. DOI: 10.1007/s10113-017-1221-6
- 2016 Seasons of Stress: Towards Understanding People’s Ability to Respond to Change and Surprise. H.J. Penn, **S.C. Gerlach**, and P.A. Loring. *Weather, Climate, and Society* 8(4). DOI: <http://dx.doi.org/10.1175/WCAS-D-15-0061.1>
- 2016 “Community Work” in a Climate of Adaptation: Responding to Change in Rural Alaska. P.A. Loring, H.J. Penn, and **S.C. Gerlach**. *Human Ecology* 44(1): 119–128.
- 2015 Searching for Progress on Food Security in the North American North: A Research Synthesis and Meta-Analysis of the Peer-Review Literature. P.A. Loring and **S.C. Gerlach**. *Arctic* 68(3): 380-392.
- 2014 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. DOI: 10.1080/08941920.2013.819955.
- 2014 Policy: Count the Social Cost of Oil Sands Too. S. Montesanti, **S.C. Gerlach**, E. Nduagu, and I. Gates. *Nature* 513: 171-172.
- 2013 Arctic Medical Health, Disease and Nutrition: The Challenges and the Joys. L Duffy, **S.C. Gerlach**, S. Ebbesson, K. Young, E. Dewailly, P. Bjerregaard, K. Dunlap, A. Godduhn, A. Reynolds. *International Journal of Circumpolar Health* 72: 841.
- 2013 Rebuilding Northern Foodsheds: Sustainable Food Systems, Community Well-Being and Food Security. **S.C. Gerlach** and P.A. Loring. *International Journal of Circumpolar Health* 72: 21560. DOI: <http://dx.doi.org/10.3402/ijch.v72i0.21560>
- 2013 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**. *Circumpolar Health Supplements* 1(72):508-510.
- 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 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: 2152-0801:1-18.
- 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) 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.
- 2011 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 (245): 177–183. doi:10.1017/S0032247411000350
- 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* 9(2): 2965-2987.
- 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**. *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 in Alaska: An Integrative Health Approach to Food Security. P. A. Loring and **S.C. Gerlach**. *Environmental Science and Policy* 12: 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. D. White, **S.C. Gerlach**, P. A. Loring, and A. Tidwell. *Environmental Research Letters* 2(4): 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. Vorsmarly. *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): 273-276.
- 2005 Testing the "Dicarb Problem:" A Case Study from North Alaska. J.R. Reuther and **S.C. Gerlach**. *Radiocarbon* 47(3): 359-366.
- 1999 The Economic Crisis of the 1990s in Finland. S. Honkapohja, E. Koskela, **S.C. Gerlach**, and L. Reichlin. *Economic Policy* 29:299-336.
- 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, Edited Volumes and Reports

- In Prep *Nunamiullu Amabullu. Nunamiut and Wolves: Local Knowledge from the Inland Iñupiat of Northern Alaska*. **S.C. Gerlach**, editor, with contributors P.A. Loring, B. Lopez, R.O. Stephenson, G. Spearman, R.T. Ahgook, Arctic John Etalook, J. Mekiana, and other Nunamiut Elders. AINA.
- 2016 *A 5°C Arctic in a 2°C World: Challenges and Recommendations for Immediate Action from the July 21-22, 2016 Workshop*. **S.C. Gerlach**, Contributor. World Wildlife Federation.
- 2014 *Challenges to Community Water Security in Bristol Bay, Alaska: A Report on Climate Change, Vulnerability, and Community Capacity*. P.A. Loring, H.J.F. Penn, **S.C. Gerlach**, W.E. Schnabel, and S.T. Norlin. WERC-HD Publications Series, Fairbanks, AK.

- 2013 *Sustainable Livestock Production in Alaska: Workshop Report*. J. Rowell, **S.C. Gerlach**, M. Shipka, J. Greenberg, and T. Paragi, Editors. Report prepared for the Sustainable Livestock Production in Alaska Conference and Workshop, October, 2011. University of Alaska Fairbanks, AK.
- 2012 *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 and Policy Support*. (**S.C. Gerlach**, with 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*, edited by **S.C. Gerlach** and M.S. Murray. 250 pages. BAR International Series 944, Oxford University Press.
- 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*, edited by O.K. Mason, **S.C. Gerlach**, and S.L. Ludwig. 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*, 2 Vols., edited by 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. 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 *Studies on Veterinary Medicine: Oxidative Stress in Applied Basic Research and Clinical Practice*. Humana Press.
- 2017 Resilience to Rapid Change in Bering, Chukchi, and Beaufort Communities. **S.C. Gerlach**, P.A. Loring, G. Kofinas, and H. Penn. In *Adaptation Actions for a Changing Arctic: Perspectives from the Bering-Chukchi-Beaufort Region*. pp. 153-176. Arctic Monitoring and Assessment Programme (AMAP), Oslo, Norway.
- 2013 Adaptive and Transformative Capacity. G. Kofinas, **S.C. Gerlach**, F.S. Chapin III, and nine other authors listed alphabetically. In *Arctic Resilience Report*, edited by Lance Gunderson and Carl Folke. Stockholm Resilience Center.
- 2011 Environmental Change, Food Systems, and Community Needs in Rural Alaska. **S.C. Gerlach**, P.A. Loring, A. Turner, and D.E. Atkinson. In *North By 2020: Perspectives on Alaska's Changing Social-Ecological Systems*, edited by A. Lovecraft and H. Eicken. 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, edited by A. Duffy, L.K. Duffy, J. Kelley, and K. Erickson, pp. 223-249. 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, edited by C. Cormack Gates, Curtis

- H. Freese, Peter J.P. Grogan, and Mandy Kortzman, pp. 5-12. IUCN, Species Survival Commission. Gland, Switzerland: IUCN.
- 2008 Coming to Terms with Rural Alaskan Foodways. **S.C. Gerlach**, A.M. Turner, P.A. Loring, and L. Henry. In *Circumpolar Environmental Science: Current Issues in Resources, Health and Policy*, edited by L.K. Duffy and K. Erickson. University of Alaska Press, Fairbanks.
- 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, *Ublasau, First Light, Inupiaq Hunters and Herders in the Early Twentieth Century, Northern Seward Peninsula, Alaska*, edited by J. Schaaf, 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 Paleocology of Beringia*, edited by F. H. West, 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*, edited by A.P. McCartney, 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*, edited by R. Shaw, R.K. Harritt, and D.E. Dumond, Pp. 107-135. Aurora, Alaska Anthropological Publication Series.
- Select Articles, Book Reviews, Notes, Newsletter and Encyclopedia Entries**
- 2012 Rebuilding Alaska Foodsheds. **S.C. Gerlach** and P.A. Loring. *Rural Connections* 6(2):23-24.
- 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 Book Review: "Learning Native Wisdom, What Traditional Cultures Teach Us about Subsistence, History, Sustainability and Spirituality" by Gary Holthaus. *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. *American Indian Quarterly*, Spring 1991: 263-265.
- 1991 Invited Book Review of *The Eskimos* by E.S. Burch, Jr. *American Indian Quarterly*, Spring 1991: 265-266.

Select Non-Peer Reviewed Technical Reports

- 1999 Cultural Resource Survey of the National Missile Defense (NMD) Deployment Program: Fort Greeley and Fort Wainwright, Alaska. B.A. Potter, **S.C. Gerlach**, A.S. Higgs, and P.M. Bowers. Report prepared for EDAW, Inc., Huntsville, Alabama.
- 1999 Final Report for the Cultural Resources Mitigation of the Anaktuvuk Pass Runway Realignment Project in Anaktuvuk Pass, Alaska, 1998. R.O. Mills, **S.C. Gerlach**, P. M. Bowers, S. J. McIntosh. Report prepared for LCMF, Incorporated, Anchorage, Alaska.
- 1998 Preliminary Report on 1998 Archaeological Survey and Excavations in Anaktuvuk Pass, Alaska. P. M. Bowers, R.O. Mills, and **S.C. Gerlach**. In association with Vera Weber, Simon Paneak Museum. Report prepared for LCMF, Incorporated, Anchorage, Alaska.
- 1997 Archaeological Survey in the Vicinity of Red Dog Mine, Northwest Alaska. P.M. Bowers, A.S. Higgs, **S.C. Gerlach**, and C. M. Williams. Report prepared for Cominco Alaska, Inc., Kotzebue, Alaska.
- 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. **S.C. Gerlach**, A. S. Higgs, and O. K. Mason. Report prepared for Cominco Alaska, Inc., Kotzebue, Alaska.
- 1996 Archaeological Survey and Assessment of Prehistoric Cultural Resources on Eielson Air Force Base, Alaska. **S.C. Gerlach**, S. J. McIntosh, P. M. Bowers, and O. K. Mason. (September 25, 1996). Report submitted to Shannon and Wilson, Inc., Fairbanks and the US Army Corps of Engineers, Alaska District, Anchorage. 183 pp.
- 1996 Archaeological Survey and Assessment of Prehistoric Cultural Resources on Eielson Air Force Base, Alaska: Management Summary. **S.C. Gerlach** and P.M. Bowers. (September 25, 1996). Report submitted to Shannon and Wilson, Inc., Fairbanks and the US Army Corps of Engineers, Alaska District, Anchorage. 26 pp.

Select Conference Proceedings and Abstracts

- 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.

- 2009 The Intersection of Environmental Variability, Policy, and Human Values: International Treaties, Yukon River Salmon, and Food Security in a Changing Arctic. **S.C. Gerlach**, P.A. Loring, and M.S. Murray. American Geophysical Union, Fall Meeting 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. 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.
- 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. 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, 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.

Film and Multimedia

- 2015 "The Gift of Resources: Tied to the Land Film Series." Produced by **S.C. Gerlach** and P.A. Loring, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=WpMOeR6yf8s>
- 2015 "Navigating Arctic Erosion: Tied to the Land Film Series." Produced by **S.C. Gerlach** and P.A. Loring, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=eLSQqIvfepY>
- 2015 "Sea Ice Secure: Tied to the Land Film Series." Produced by **S.C. Gerlach** and P.A. Loring, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=L69zKZ2HcV4>
- 2015 "Stored in the Country: Tied to the Land Film Series." Produced by **S.C. Gerlach** and P.A. Loring, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=DC5CvsyPMAI>
- 2015 "Grocery Store of our People: Tied to the Land Film Series." Produced by **S.C. Gerlach** and P.A. Loring, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=WaNLxm7mDg0>
- 2015 "Adapting in the Arctic: Tied to the Land Film Series." Produced by P.A. Loring and **S.C. Gerlach**, with filmmaker S. Betcher. <https://www.youtube.com/watch?v=zFdSs9PKPL4>

CONFERENCE PRESENTATIONS AND INVITED LECTURES

Invited

- 2014 Presenter and Panel Moderator, Adaptation Actions for a Changing Arctic, AACA Bering/Chukchi/Beaufort Regional Report Author's Workshop, Seattle, Washington, September 20-21.
- 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. Dena'ina Convention Center, Anchorage, Alaska, February 7.

- 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. Grandview Inn Wasilla and the Palmer Center for Sustainable Living, Matanuska Experiment Farm. United States Department of Agriculture. October 18-19.
- 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. Sponsored by the Center for Disease Control and the American Society for Circumpolar Health. Fairbanks, Alaska, August 5-10.
- 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. Queens University, Kingston, Ontario, Canada. January 30-February 1.
- 2012 Food Security and Policy in Alaska: What is the Role of Local Food Systems? **S.C. Gerlach**, P.A. Loring, and R.M. Mikol. 29th Annual Alaska Health Summit, Anchorage, Alaska, January 23-25.
- 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.
- 2011 Alaska Native Foodways, In Transition. P.A. Loring and **S.C. Gerlach**. Denali National Park, Murie Science Center, July 11.
- 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, Anchorage, Alaska, May 18-19.
- 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 Food Security in Alaska. Invited Speaker, Panel Moderator, and Exhibitor. Sustainable Agriculture and Organic Growers School and USDA/Western SARE Conference. Princess Hotel, Fairbanks, Alaska, March 16-19.
- 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. Fairbanks, Alaska, February 22.
- 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. Fort Yukon, Alaska, October 19-21.
- 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. San Francisco, California, August 18.
- 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. Fairbanks, Alaska, March 4-7.

- 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. San Francisco, California, December 14-18.
- 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. Fairbanks, Alaska, March 4-7.
- 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. **S.C. Gerlach** and D. Atkinson. Alaska State Cabinet and Alaska Municipal League, Anchorage, Alaska, May 29.
- 2008 The Future of Northern Food Systems. **S.C. Gerlach**, Chair and Panel Moderator. 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 Coming to Terms with the Future of Northern Food Systems: Tipping Points as a Proxy for Understanding Change. **S.C. Gerlach** and P.A. Loring. Invited Plenary Speaker, Tipping Points, the Arctic and Global Change, Arctic Forum, Arctic Research Consortium of the United States, Washington, DC. May 15.
- 2008 What is the Future of Wild Game in Alaska Food Systems? T. Paragi, **S.C. Gerlach** and P.A. Loring. Annual Meeting of the Alaska Chapter of the Wildlife Society, Anchorage, Alaska, April 22-24.
- 2008 Climate change, surface water, and food security in Alaska. P. Loring and **S.C. Gerlach**. International Conference on Food Security and Environmental Change, Oxford, England.
- 2007 The Impacts of Climate Change on Rural Food Systems and Health. **S.C. Gerlach**, P. Loring, and L.K. Duffy. Alaska Health Summit. Anchorage, Alaska.
- 2007 Country Foods, Health and Nutrition in Changing Alaskan Ecosystems. **S.C. Gerlach** and P.A. Loring. Second Annual Alaska Biomedical Conference, Fairbanks, Alaska.
- 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.

- 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.
- 2006 The International Polar Year, 2007/08: Meeting the Challenge at UAF. D. White, **S.C. Gerlach**, J. Walsh and the RISA Working Group, University of Alaska. Alaska Forum on the Environment, Anchorage, Alaska, February 6.
- 2005 Human-Climate Interactions and Human Security in the Arctic. 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. 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 Linking the Past to the Present and Planning for the Future: Human and Ecosystem Health in the Gulf of Alaska. M. S. Murray, L.K. Duffy, **S.C. Gerlach**, A.C. Hiron, and J. Schaaf. International GLOBEC Symposium, Climate Variability and Sub-Arctic Marine Ecosystems, Victoria, British Columbia, Canada, May 16-20.
- 2005 On the Use of Oral History in Wildlife Management and Restoration Ecology. The Wood Bison Advisory Group Meeting, Fairbanks, Alaska, June 7-8, Alaska Department of Fish and Game.
- 2005 History of Wood Bison and Potential for Restoration in Alaska and Yukon. **S.C. Gerlach**, C. Fleener, and R.O Stephenson. IUCN Species Survival Commission, Bison Specialist Group (North America), Vermejo Park Ranch, Raton, New Mexico. May 7-9.
- 2004 Long-Term Perspectives on Biocomplexity in the Gulf of Alaska. M.S. Murray, L.K. Duffy, **S.C. Gerlach**, and T. Lefrancois. Paper presented in the session Complex Environmental Systems, Chemistry, and High Latitudes. American Association for the Advancement of Science, Annual Meeting, Seattle, February 12-16.
- 2003 On the Use of Historical Proxies in Wildlife Management and Conservation Biology in Alaska and Canada. **S.C. Gerlach** and A. Turner. Paper for the symposium “Archaeological Approaches to Contemporary Environmental Issues” at the 36th Annual Meeting of the Canadian Archaeological Association, May 8-10, Hamilton, Ontario.
- 2003 Assessing Mercury Levels in Ancient and Modern Alaskan Caribou: Implications for Community and Ecosystem Health. **S.C. Gerlach**, L. K. Duffy, and M. S. Murray. Paper for the symposium “Archaeological Approaches to Contemporary Environmental Issues” at the 36th Annual Meeting the Canadian Archaeological Association, May 8-10, Hamilton, Ontario.

Contributed Conference Presentations

- 2018 Designing sustainable food, water, and energy systems through the lens of resilience to improve food security in northern rural communities: A Containerized Agriculture Case Study. A. Wilkinson, V. Rajdev, H. Penn, S.C. Gerlach. ArcticNet Conference 2019. Ottawa, Canada. December
- 2018 Detecting and mitigating health threats to muskoxen in a changing Arctic. S. Kutz, S. Checkley, C. Dalton, T. Davison, J. DiFrancesco, T. Forde, **S.C. Gerlach**, W. Hutchins, P. Kafle, L.M. Leclerc, F. Mavrot, M. Tomaselli, F. van der Meer, and K.W. Edwards. Polar 2018: SCAR and IASC Conference. Davos, Switzerland, June.
- 2018 The Food-Water-Energy Nexus and containerized hydroponics. A. Wilkinson, S.C., Gerlach. University of Calgary Environmental Design Research Conference. Calgary, Canada. March.

- 2017 Adaptation Actions to a Changing Arctic in the Bering - Chukchi - Beaufort Region. L.D. Hinzman, P.M. Outridge, A. Klepikov, J.E. Walsh, M.D. Ananicheva, T.R. Armstrong, J. Bengtson, G.M. Flato, J.L. Fuglestad, J. Gamble, **S.C. Gerlach**, H.P. Huntington, G.P. Kofinas, J.M. Kuperberg, F. Lipschultz, P.A. Loring, A.L. Lovecraft, L. Eerkes-Medrano, E. Nikitina, B.L. Preston, S.F. Trainor, L. Thorsteinson. International Arctic Change 2017 Conference, Quebec City, Canada, December.
- 2016 Community-based Participatory Methods: A Tool to Enhance Muskox Research and Co-management. M. Tomaselli, **S.C. Gerlach**, S.J Kutz, S. Checkley, and the community of Ikaluktutiak. Muskox Health Ecology Symposium, Canada, November.
- 2016 Exploring the Importance of Arctic Muskoxen: Perspectives from Ikaluktutiak, Victoria Island, Nunavut. M. Tomaselli, **S.C. Gerlach**, S.J Kutz, S. Checkley, and the community of Ikaluktutiak. Muskox Health Ecology Symposium, November.
- 2014 Muskox Health Surveillance in the Canadian Arctic: lessons learned from a participatory approach in the community of Ikaluktutiak. Oral and Poster presentation. Arctic Change, Ottawa, December 8-12.
- 2014 Next Steps for Food Security in the North. P.A. Loring and **S.C. Gerlach**. Western Alaska Interdisciplinary Science Conference. Kotzebue, AK, April 24.
- 2013 Seafood as Local Food: Food Systems Lessons from Alaska. P.A. Loring and **S.C. Gerlach**. Toward Sustainable Foodscapes and Landscapes. Annual meeting of the Agriculture, Food, and Human Values Society (AFHV) and the Association for the Study of Food and Society (ASFS). June 20, Lansing, MI.
- 2012 Promoting Healthy Communities through Food and Water Security. P.A. Loring and **S.C. Gerlach**. Western Alaska Interdisciplinary Science Conference. Dillingham, AK, March 28-30.
- 2012 Food Security and Policy in Alaska: What is the role of local food systems? P.A. Loring, **S.C. Gerlach** and R.M. Mikol. Alaska Public Health Summit. Anchorage, AK, January 23.
- 2010 From the Bering Sea to Canada: Food Security and the Yukon River Salmon. P. A. Loring, **S.C. Gerlach**, and D. Atkinson. Ecosystems: The 29th Lowell Wakefield Symposium. Anchorage, Alaska, November 8-11.
- 2010 Are We Asking Too Much of the Yukon River? P.A. Loring and **S.C. Gerlach**. The Arctic Forum. Miami, Florida, March 16-19.
- 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. Presented by Inland Northwest Research Alliance (INRA) and UAF, 2007-2009 International Polar Year Alaska. Fairbanks, Alaska, March 4-7.
- 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. Presented by Inland Northwest Research Alliance (INRA) and UAF, 2007-2009 International Polar Year Alaska. Fairbanks, Alaska, March 4-7.
- 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.

- 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.
- 2007 Country Foods, Community Health and Nutrition in Gwich'in Ecosystems. **S.C. Gerlach**, L.K. Duffy, and P.A. Loring. 3rd Annual University of Alaska Biomedical Research Conference. April 12-13. Fairbanks, Alaska.
- 2005 Mercury, Alaska and Archaeological Chemistry. L.K. Duffy, M.S. Murray and **S.C. Gerlach**. 60th Northwest Regional and Small Chemical Businesses Meeting, Fairbanks, Alaska.
- 2004 Synthesis and Connections: Directions in the Intellectual Development of HARC. 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. 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 Synthesis and Connections: Directions in the Intellectual Development of HARC. 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. 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 Can Archaeological Samples Provide Evidence of Change in Mercury Levels Through Time? L.K. Duffy, **S.C. Gerlach**, M.S. Murray, T. LeFrancois, R. Rothschild, and P.M. Bowers. American Association for the Advancement of Science 55th Arctic Science Conference, Human Dimensions of the Arctic Environment. Anchorage, 29 September - 1 October.
- 2003 Preliminary Comparison of Mercury Levels in Ancient and Modern Alaskan Arctic Caribou. L.K. Duffy, **S.C. Gerlach**, and M.S. Murray. Sixth Annual Electric Utilities Environmental Conference - Air Quality and Global Climate Change. January 27-30, Tucson.
- 2002 Blood Residue Analysis and Alaskan Archaeology. J.D. Reuther and **S.C. Gerlach**. 29th Annual Meeting of the Alaskan Anthropological Association, Anchorage, April 4th-6th 2002.
- 2002 New Dates from an Interior ASTt site in the Arctic Foothills of Northern Alaska. J.D. Reuther, **S.C. Gerlach**, and C. Gelvin-Reymiller. 35th Annual Meeting of the Canadian Archaeological Association, Ottawa, May 16-18.
- 2002 New Dates from an Interior Archaeological site in the Arctic Foothills of Northern Alaska. J.D. Reuther, **S.C. Gerlach**, and C. Gelvin-Reymiller. 29th Annual Meeting of the Alaskan Anthropological Association, Anchorage, April 4-6.
- 2001 Blood Residue Analysis and Alaskan Archaeology. J.D. Reuther and **S.C. Gerlach**. 9th Annual Arctic Archaeology Conference, Salt Lake City.
- 2001 Counting Coup or Counting Calories: The Role of Whaling in Thule Origins and the Eastern Expansion. **S.C. Gerlach** and M.S. Murray. 34th Annual Meeting of the Canadian Archaeological Association, May 9-13, Banff, Alberta, Canada.

Select Conference Posters

- 2014 Muskoxen and food security: insights from a participatory approach in the community of Ikaluktutiak. M. Tomaselli, **S.C. Gerlach**, S.J. Kutz, C.S. Ribble, L.M. Leclerc, and S.L. Checkley.

Poster Presentation. Agricultural Biotechnology Conference, Saskatoon, Saskatchewan, October 5-8, 2014.

- 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

- 2016 A 5°C Arctic in a 2°C World. Workshop sponsored by Columbia Climate Center and Earth Institute Institute, World Wildlife Fund, Woods Hole Research Center, Arctic 21, International Arctic Research Center (University of Alaska Fairbanks), the Arctic Institute of North America (Canada), the MEOPAR Network (Marine Environmental Observation, Prediction, and Response), and the Future Ocean Excellence Cluster. July 21-22. New York.
- 2015 AACA Bering/Chukchi/Beaufort Regional Report Author's Workshop II. March 20-23, Oslo, Norway. Arctic Monitoring and Assessment Programme (AMAP).

- 2014 AACA Bering/Chukchi/Beaufort Regional Report Author's Workshop I. September 20-21, Seattle, Washington, U.S.A.
- 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 National Science Foundation.

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 **S.C. 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 **S.C. 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.

PUBLIC SERVICE AND COMMUNITY ENGAGEMENT

- 2018-Present Board of Directors, elected, Cochrane District and Agricultural Society
- 2010-12 Member, Governing Board, Alaska Food Policy Council
- 2004-11 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 (U.S)

- 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.
- Ongoing 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
- International Circumpolar Agriculture

REFERENCES

Available Upon Request