Adaptation, industrial development and Arctic communities

Summary

Project Leader

Keeling, Arn

Mining has become a complex and still poorly understood driver of both economic and socio-cultural change in the Eastern Arctic. This project has engaged in community-based, historical, and comparative research into industrial development as a driver of social, cultural and environmental change in the Canadian Arctic. In particular, researchers explored the cultural, economic and environmental impacts of past and present mineral exploration and development in several Arctic communities, including: Kugluktuk (Coppermine) in the Kitikmeot region, Qamani'tuaq (Baker Lake) and Kangiqiniq (Rankin Inlet) in the Kivalliq region, and Ikpiarjuk (Arctic Bay), site of the Nanisivik mine in the Qikiqtani Region. Research has also been conducted relating to the Polaris mine and the nearby community of Resolute. Working with community researchers and other collaborators, this project identified issues of importance in relation to mining development and community change, and explored community reactions and adaptations to the changes brought by industry. Researchers have collected extensive archival records relating to the history of industrial development in the Arctic, and will relate this history to changing government social and economic policies in the region, such as Inuit resettlement. Survey and ethnographic research in Arctic communities revealed a complex mixture of both positive and negative experiences with large-scale mineral development amongst Inuit. These impacts often have strongly gender-specific effects.

People

Network Investigators

Cameron, Emilie - Carleton University
Keeling, Arn - Memorial University of Newfoundland
Sandlos, John - Memorial University of Newfoundland
Tester, Frank - University of British Columbia

Collaborators & Research Associates

McGrath, J. Tamalik - Independant Contractor
Mearns, Rebecca - Nunavut Sivuniksavut
Zadowski, Krista - University of British Columbia

Post-Doctoral Fellows

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PhD Students

Cater, Tara I. - Carleton University
Gladstone, Josh - Carleton University
Johnston, Patricia - University of British Columbia

Masters Students

Carney, Jeanette - Memorial University of Newfoundland
Czyzewski, Karina - University of British Columbia
Formos, Alex - University of British Columbia
Fox, Rose - Memorial University of Newfoundland

Gray-Cosgrove, Carmella - Memorial University of Newfoundland
Levitan, Tyler - Carleton University
Williams, Andrew - Carleton University

Northern Research Staff

Aaruaq, Nadia - Community of Qamani'tuaq

Partners

Canadian Women's Foundation
Labrador Institute of Memorial University
Memorial University Faculty of Arts
Memorial University of Newfoundland
National Scientific Research Centre (CNRS)
Network in Canadian History and Environment
Northern Scientific Training Program
Nunavut Social History Project
Pauktuutit
Rachel Carson Center for Environment and Soceity
Resources and Sustainable Development in the Arctic Network
University of British Columbia

Publications

Articles Published in Refereed Publications

Cameron, E., 2011, Copper Stories: Imaginative Geographies and Material Orderings of the Central Canadian Arctic, A. Baldwin, L. Cameron, and A. Kobayashi (eds.) Rethinking the Great White North: Race, Nature and the Historical Geographies of Whiteness in Canada, 169-190, Published

Cameron, E., 2012, Securing Indigenous Politics: a critique of the vulnerability and adaptation approach to the human dimensions of climate change in the Canadian Arctic, Global Environmental Change 22, 1, 103-114, Published

Cameron, E., 2014, Scaling Arctic Climate Change, Perspectives on the Environmental History of Northern Canada, , Accepted

Cameron, E., and Levitan, T., 2014, Impact and Benefit Agreements and the Neoliberalization of Indigenous-State Relations and Resource Governance in Northern Canada, Studies in Political Economy, n/a, Accepted

Cameron, E., and Levitan, T., 2014, Impact and Benefit Agreements and the Neoliberalization of Indigenous-State Relations and Resource Governance in Northern Canada, Studies in Political Economy, v. 93, 29-56, Published

Cameron, E., de Leeuw, S., and Desbiens, C., 2014, Indigeneity and Ontology, cultural geographies, v. 21, no. 1, 19-26, Accepted

Cameron, E., Mearns, R., and McGrath, T., 2013, Translating climate change: adaptation, resilience, and climate politics in Nunavut, Canada, Annals of the Association of American Geographers, n/a, Submitted

Cameron, E., Mearns, R., and McGrath, T., 2014, Translating climate change: adaptation, resilience, and climate politics in Nunavut, Canada, Annals of the Association of American Geographers, v. 105, no. 2, DOI:10.1080/00045608.2014.973006, Published

Cater, T., and Keeling, A., 2013, 'That's Where Our Future Came From': Mining, Landscape, and Memory in Rankin Inlet, Nunavut, Études/Inuit/Studies v. 37, no.2, , Accepted

Cater, T., and Keeling, A., 2014, 'That's Where Our Future Came From': Mining, Landscape, and Memory in Rankin Inlet, Nunavut, Études/Inuit/Studies v. 37, no.2, 59-82, Published

Czyzweski, K., and Tester, F., 2015, Social Work, Colonial History and Engaging Indigenous Self Determination, Canadian Social Work Review, n/a, Accepted

Green, H., 2013, State, Company and Community Relations at the Polaris Mine (Nunavut), Études/Inuit/Studies v. 37, no.2, n/a, Accepted

Green, H., 2013, "There is no memory of it here": Closure and Memory of the Polaris Mine in Resolute Bay, 1973-2012", Mining and Communities in Northern Canada: History, Politics, and Memory, n/a, Submitted

Green, H., 2014, State, Company and Community Relations at the Polaris Mine (Nunavut), Études/Inuit/Studies v. 37, no.2, 37-57, Published

Green, H., 2015, "There is no memory of it here": Closure and Memory of the Polaris Mine in Resolute Bay, 1973-2012", Mining and Communities in Northern Canada: History, Politics, and Memory, n/a, Accepted

Johnston, P., and Tester, F., 2014, Breaking the colonial role: changing social work practice in Nunavut, Canadian Journal of Native Studies, v. 34, no. 1, 111-127, Published

Johnston, P., and Tester, F., 2015, The Contradiction of Helping: Inuit Oppression(s) and Social Work in Nunavut, Journal of Progressive Human Services, v. 26, no. 3, n/a, Accepted

Keeling, A., and Sandlos, J., 2014, Introduction: The Complex Legacy of Mining in Northern Canada, Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Keeling, A., and Sandlos, J., 2015, Introduction: The Complex Legacy of Mining in Northern Canada, Mining and Communities in Northern Canada: History, Politics, and Memory, , Accepted

LeClerc, E., and Keeling, A., 2014, From Cutlines to Traplines: Post-industrial land use at the Pine Point mine, The Extractive Industries and Society, v. 2, no. 1, 7-18, Published

Midgley, S., 2012, Contesting Closure: The Science, Politics and Community Responses to Closing the Nanisivik Mine (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Midgley, S., 2013, Contesting Closure: The Science, Politics and Community Responses to Closing the Nanisivik Mine (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Midgley, S., 2015, Contesting Closure: The Science, Politics and Community Responses to Closing the Nanisivik Mine, Mining and Communities in Northern Canada: History, Politics, and Memory, , Accepted

Sandlos, J., and Keeling, A., 2014, Aboriginal Communities, Traditional Knowledge, and the Environmental Legacies of Extractive Development in Canada, The Extractive Industries and Society, n/a, Submitted

Tester, F, and Flanelly, C., 2012, The Rankin File: Inuit health and the Canadian liberal welfare state, Canadian Historical Review, , Accepted

Tester, F., 2013, Climate Change as a Human Rights Issue, Chapter in Environmental Social Work, , Accepted

Tester, F.J., and Blangy, S., 2014, Industrial Development and Mining Impacts, Études/Inuit/Studies v. 37, no.2, n/a, Accepted

Tester, F.J., and Blangy, S., 2014, Industrial Development and Mining Impacts, Études/Inuit/Studies v. 37, no.2, 5-14, Published

Tester, F.J., Lambert, D., and Lim, T., 2013, Wistful thinking: Making Inuit labour and the Nanisivik mine near Ikpiarjuk (Arctic Bay), northern Baffin Island, Études/Inuit/Studies v. 37, no.2, n/a, Accepted

Tester, F.J., Lambert, D., and Lim, T., 2014, Wistful thinking: Making Inuit labour and the Nanisivik mine near Ikpiarjuk (Arctic Bay), northern Baffin Island, Études/Inuit/Studies v. 37, no.2, 15-36, Published

Other Refereed Contributions

Boutet, J.S. , Keeling, A., and Sandlos, J., 2012, Historical Perspectives on Mining and the Social Economy, Northern Communities Working Together: The Social Economy of Canada's North, , Submitted

Boutet, J.S. , Keeling, A., and Sandlos, J., 2013, Historical Perspectives on Mining and the Social Economy, Northern Communities Working Together: The Social Economy of Canada's North, , Accepted

Boutet, J.S. , Keeling, A., and Sandlos, J., 2015, Historical Perspectives on Mining and the Social Economy, Northern Communities Working Together: The Social Economy of Canada's North, 198-227, Accepted

Cameron, E., 2012, Scaling Arctic Climate Change, Northern Environmental History, , Submitted

Keeling, A., 2012, Ghost Towns and Zombie Mines: The Future History of Mining in Canada, Paper presented at Canadian Association of Geographers Annual Meeting, Waterloo, ON, n/a, Published

Keeling, A. and Boulter, P., 2013, From Igloo to Mineshaft: Inuit Labour and Memory at the Rankin Inlet Nickel Mine (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Keeling, A. and Boulter, P., 2013, From Igloo to Mineshaft: Inuit Labour and Memory at the Rankin Inlet Nickel Mine (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Keeling, A. and Boulter, P., 2015, From Igloo to Mineshaft: Inuit Labour and Memory at the Rankin Inlet Nickel Mine (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Accepted

Keeling, A. and Sandlos, J., 2011, Ghost Towns and Zombie Mines: The Historical Dimensions of Mine Abandonment, Reclamation and Redevelopment in the Canadian North, Paper presented at the conference "History Underground: Environmental Perspectives on Mining," Rachel Carson Center, Munich, Germany, n/a, Published

Keeling, A. and Sandlos, J., 2012, Canada's Mining Legacy and the Challenge of Sustainability (book chapter), The Nature of Canada, , Submitted

Levitan, T. and Cameron, E., 2012, IBAs and the Neoliberalization of Northern Resource Extraction (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Levitan, T. and Cameron, E., 2013, IBAs and the Neoliberalization of Northern Resource Extraction (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Submitted

Levitan, T. and Cameron, E., 2015, IBAs and the Neoliberalization of Northern Resource Extraction (book chapter), Mining and Communities in Northern Canada: History, Politics, and Memory, , Accepted

Sandlos, J. and Keeling, A., 2013, Ghost Towns and Zombie Mines: The Historical Dimensions of Mine Abandonment, Reclamation and Redevelopment in the Canadian North (book chapter), Northern Environmental History, , Accepted

Sandlos, J. and Keeling, A., 2013, Ghost Towns and Zombie Mines: The Historical Dimensions of Mine Abandonment, Reclamation and Redevelopment in the Canadian North, Exploring Environmental History in Northern Canada, , Accepted

Sandlos, J. and Keeling, A., 2014, Ghost Towns and Zombie Mines: The Historical Dimensions of Mine Abandonment, Reclamation and Redevelopment in the Canadian North, Perspectives on the Environmental History of Northern Canada, , Accepted

Non-Refereed Contributions

Boulter, P. and Sandlos, J., 2012, Survival in an Arctic Boomtown: Socio-economic and Cultural Diversity in Rankin Inlet, 1956-63, Paper presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Cameron, E., 2011, Geographies of Mineral Exploration and Extraction in the Central Arctic, Presentation at Political Economy of Mining Conference, Ottawa, ON January 28, 2011, n/a, Published

Cameron, E., 2011, Securing Indigenous politics: on the "human" dimensions of climate change in the Canadian Arctic, Presentation at the Association of American Geographers Conference, Seattle, WA, n/a, Published

Cameron, E., 2012, Scaling climate politics: Indigenous peoples and the limits of the local, Paper presented at the Historical Materialism Conference, Toronto, ON, n/a, Published

Cameron, E., 2012, Resource Extraction and Shipping as Human Dimensions of Climatic Change: On the Politics of 'Local' Knowledge in Arctic Social Science, Paper presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Cameron, E., 2013, Critical Geographies of Arctic Climate Change: Toward Different Locals, paper presented at Canadian Association of Geographers Annual Meeting, St. John's, n/a, Published

Cameron, E., 2013, Critical Perspectives on Indigeneity and Extraction, invited panel commentator, Association of American Geographers Annual Meeting, Los Angeles, n/a, Published

Cameron, E., 2013, Scaling Climate: Critical Geographies of Arctic Climate Change, paper presented at at Critical Climate Change Conference, Minneapolis, MN, n/a, Published

Cameron, E., and Mearns, R., 2013, Genealogies of Adaptation and Resilience in Contemporary Nunavut, paper presented at Association of American Geographers Annual Meeting, Los Angeles, n/a, Published

Cameron, E., Hoogeveen, D., and Tester, F., 2011, Governing Resource Extraction in Nunavut: Current Challenges, Presentation at International Congress of Arctic Social Sciences/International Arctic Social Sciences Association meeting in Akureyri, Iceland, n/a, Published

Cameron, E., Mearns, R., and McGrath, J.T., 2014, Translating Climate Change: Adaptation, Resilience, and Climate Politics in Nunavut, Canada, Arctic Change conference, n/a, Published

Cameron, E., Mearns, R., and McGrath, J.T., 2014, Translating Climate Change: Adaptation, Resilience, and Climate Politics in Nunavut, Inuit Studies conference, n/a, Published

Caputo-Nimbark, R. and Keeling, A., 2012, Mining, Language, and Environment: Developing (cyber)spaces for preserving biocultural diversity in northern communities, Poster presented at ArcticNet ASM, Vancouver, n/a, Published

Cater, T., 2012, The Road to Meliadine: Exploring Past, Present, and Future Mining Encounters in the Kivalliq Region of Nunavut, Paper presented at ArcticNet ASM, Vancouver, n/a, Published

Cater, T., 2012, "You Don't Want To Be There": An Ethnographic Analysis of Past, Present, and Future Mineral Encounters in the Kivalliq Region, Nunavut, Paper presented at Atlantic Division of the Canadian Association of Geographers (ACAG) Meeting in Halifax, N.S., n/a, Published

Cater, T. and Keeling, A., 2012, When Mining Comes (Back) to Town: Exploring mining encounters in the Kivalliq Region, Nunavut, Poster presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Czyzweski, K., and Tester, F., 2014, Participatory Arctic Research: The Impacts of Gold Mining on Women in Qamani'tuaq (Baker Lake), Nunavut Territory, Inuit Studies conference, n/a, Published

Czyzweski, K., and Tester, F., 2014, The Social Impacts of Mining on Inuit Women in Qamani'tuaq, Nunavut: A Quantitative Analysis, Arctic Change conference, n/a, Published

Fox, R., Sandlos, J. and Keeling, A., 2013, Fifty Years in the Making: Mary River, Baffin Island, Iron Ore Exploration Project, poster presented at ArcticNet ASM, n/a, Published

Green, H., 2012, The Arctic Rust Belt: The Socioeconomic and Environmental Legacy of Deindustrialization in Arctic Canada, Poster presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Green, H., 2012, Colonialism, Community Consultation, and Inuit Employment in an Arctic Mine, 1970-2002, Paper presented at ArcticNet ASM, Vancouver, n/a, Published

Green, H., 2013, If You Ask them, They Will Tell: Conducting Oral Histories to Study High Arctic Mining, Heritage, and Memory, paper presented at American Society for Environmental History conference, Toronto, n/a, Published

Keeling, A., 2013, Mining and Social Memory at Rankin Inlet, NU, paper presented at ArcticNet ASM, n/a, Published

Keeling, A., 2013, From Igloo to Mineshaft: Inuit Labour and Memory at the Rankin Inlet Nickel Mine, paper presented at Extractive Industries and the Arctic: Historical Perspectives on Environmental Change in the Circumpolar World workshop, St. John's, NL, n/a, Published

Keeling, A., 2013, Adaptation, Work, and the Work of Adaptation: Remaking Inuit workers at Rankin Inlet in the 1950s and 1960s, paper presented at Canadian Association of Geographers Annual Meeting, St. John's, n/a, Published

Keeling, A., 2013, Legacies of Extraction: Thinking Historically About Extractive Industries, invited panel commentator, Association of American Geographers Annual Meeting, Los Angeles, n/a, Published

Keeling, A., 2014, Cumulative Effects and Environmental Legacies of Historical Extractive Development in the Arctic, International Congress of Arctic Social Sciences VIII, n/a, Published

Keeling, A. and Sandlos, J., 2011, Residual landscapes: The nature of the Canadian mining industry, Invited lecture in series, Transforming Canada: Histories of Environmental Change, York University, Toronto, n/a, Published

Keeling, A. and Sandlos, J., 2014, Toxic Legacies: Community Perspectives on Arsenic Pollution at Yellowknife's Giant Mine (poster), Arctic Change conference, n/a, Published

Keeling, A. and Tester, F., 2012, The Long Way Down: Mining, Industrialization and Culture Change at Rankin Inlet, NU, 1957-1968, Paper presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Keeling, A., and Sandlos, J., 2013, The Politics and Practice of Oral Environmental History Research in Northern Canada, paper presented at American Society for Environmental History conference, Toronto, n/a, Published

Keeling, A., and Sandlos, J., 2014, Aboriginal Communities, Traditional Knowledge, and the Environmental Legacies of Extractive Development in Canada, Arctic Change conference, n/a, Published

Lim, T. and Tester, F., 2012, "We Thought It Would Last Forever": The social scars and legacy effects of mine closure at Nanisivik, Canada's first High Arctic Mine, Paper presented at ArcticNet ASM, Vancouver, n/a, Published

Lim, T., Satterfield, T. and Tester, F., 2012, The Social Dimensions of Mine Closure: Lessons from Nanisivik, Canada's First High Arctic Mine, Paper presented at Inuit Studies Conference, Washington, D.C., n/a, Published

Midgley, S., 2011, Co-Producing Coal, Science and Territory: The (Geo)Political-Economy of Svalbard's Minescapes, • Oral presentation at Atlantic Division of the Canadian Association of Geographers Conference, n/a, Published

Midgley, S., 2012, Dealing with the Legacies of a High Arctic Mine: The Closure of Nanisivik, Paper presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Midgley, S., 2012, High Arctic Mining at Nanisivik and Svalbard: Co-producing Ores, Science and States, Poster presented at International Polar Year (IPY) Conference, Montreal, n/a, Published

Sandlos, J., 2011, Keynote Address, Thompson Rivers University Politics, History and Philosophy Conference, Conference Presentation, n/a, Published

Sandlos, J., 2013, Arctic Dreaming? History, Resource Development, and the Future of the Arctic Meltdown, Seeing the Woods: A Blog by the Rachel Carson Center for Environment and Society, n/a, Published

Sandlos, J., 2013, Mining, Energy, and the Challenge of Sustainability in Canada, Keynote Address, Energy Histories of the North Atlantic World Workshop, Center for Foreign Policy Studies, Dalhousie University, n/a, Published

Sandlos, J., 2013, Zombie Mines and the Legacies of Industrial Development in Northern Canada, Invited presentation, John F. Kennedy-Institut, Freie Universtät Berlin, and the Amerika Institut, Ludwig Maximilian Universität München, n/a, Published

Sandlos, J., 2013, Histories of the Arctic Future: the Elusive Dream of Northern Development, paper presented at ArcticNet ASM, n/a, Published

Sandlos, J., 2013, The History of Arctic Futures, Panel presentation, Extractive Industries in the Arctic Workshop, Memorial University, n/a, Published

Sandlos, J., and Keeling, A., 2013, Zombie Mines and the (Over)Burden of History, Solutions Journal, v. 4, no. 3, online, Published

Sandlos, J., and Keeling, A., 2015, Toxic Legacy: History, Memory, and Environmental Remediation at a Northern Canadian Gold Mine, American Society for Environmental History conference, n/a, Accepted

Tester, F., 2011, Socio-political Legacies of Mining in the Eastern Arctic: Mining and Rankin Inlet and Nanisiviq, Paper presented at the International Arctic Social Sciences Association Seventh International Congress, Akureyri, Iceland, n/a, Published

Tester, F., 2012, Off The Page: 'Making Inuit' in Planning for the Nanisivik Mine, Arctic Bay, Baffin Island, 1970-79, Paper presented at Inuit Studies Conference, Washington, D.C., n/a, Published

Tester, F., 2013, Not Frozen in Time: A photographic record of social and environmental change in the eastern Arctic, 1949 – 1979, keynote address, Extractic Industries in the Arctic: Historical Perspectives on Environmental Change in the Circumpolar World workshop workshop, St. John's, NL, n/a, Published

Tester, F. and Lambert, D., 2012, Pioneering on behalf of Inuit: Planning Canada's first High Arctic Mine, Paper presented at ArcticNet ASM, Vancouver, n/a, Published

Tester, F., and Czyzewski, K., 2013, Impacts of the Meadowbank Gold Mine on Women and Families in Qamani'tuaq (Baker Lake), Nunavut Territory, paper presented at ArcticNet ASM, n/a, Published

Specialized Publications

Blasco, S., Byers, M., Cameron, E., Harris, L.N., Keeling, A., Kittmer, S., Knopp, J., Lasserre, F., McAlister, J., Reist, J., Southcott, C., Tallman, R., Têtu, P.-L., 2013, Resource Development, Draft Chapter 9, IRIS-1 Report, , Submitted

Cameron, E., Kittmer, S., Keeling, A., 2012, Future Mining, Draft section of Chapter 7, IRIS-1 Report, , Submitted

Cater, Tara, 2013, When Mining Comes (Back) to Town: Exploring Mining Encounters in the Kivalliq Region, MA Thesis, n/a, Published

Czyzewski, K., Tester, F., Pauktuutit: Inuit Women of Canada, Aaruaq, N., and Blangy, S., 2014, The Impact of Resource Extraction on Inuit Women and Families in Qamani'tuaq, Nunavut Territory: A Qualitative Assessment, Report, 174pp, Published

Czyzwski, K., 2014, Debwe: Responding to social injuries, MSW Thesis, University of British Columbia, n/a, Published

Dowsley, M., Mills, S., Cox, D. and Cameron, E., 2013, Gendering Understandings of Resource Development, Resources and Sustainable Development in the Arctic: Gap Analysis, , Submitted

Keeling, A. and Boulter P., 2013, Mineral development in the Eastern Arctic, Draft section of Chapter 3, IRIS-2 report, , Submitted

Keeling, A., Carney, J., and Cater, T., 2015, Mining and Communities in the Eastern Arctic, IRIS-2 Report, n/a, Submitted

Keeling, A., Sandlos, J., Boutet, J.S., and Longley, H., 2013, Managing Development? Knowledge, Sustainability and the Environmental Legacies of Resource Development in Northern Canada, Resources and Sustainable Development in the Arctic: Gap Analysis, , Submitted

Lim, T., 2013, Inuit Encounters with Colonial Capital: Nanisivik--Canada's First High Arctic Mine, MA Thesis, n/a, Published

Lockhar, L., Barber, D.G., Blasco, S., Byers, M., Cameron, E., Gaden, A., Harris, L.N., Keeling, A., Kittmer, S., Knopp, J., Lasserre, F., McAlister, J., Reist, J., Southcott, C., Tallman, R., Têtu, P.-L., 2015, Resource Development, Chapter 9, IRIS-1 Report, , Accepted

Williams, A., 2014, Governmentality and Mining: Analyzing the Environmental Impact Assessment for the Mary River Mine, Nunavut, Canada, MA Thesis, Carleton University, n/a, Published