

Transdisciplinary Research on the Changing Arctic and Its Global Impacts: Enhancing Capacity for Convergence Science

The Arnold and Mabel Beckman Center of the National Academies of Sciences and Engineering, Irvine, CA
October 31-November 1, 2019

LIST of SPEAKERS

Philip Steinberg, Professor of Political Geography, Durham University

Philip Steinberg is Professor of Political Geography at Durham University, where he directs IBRU: Durham University's Centre for Borders Research and serves as editor-in-chief of the journal *Political Geography*. He has served as PI on a number of interdisciplinary, Arctic-related projects including Territorial Imaginaries and Arctic Sovereignty Claims (funded by the NSF, 2009-2013); Global Alternatives for an Interconnected Arctic (GAIA) (funded by the European Commission, 2012-2013); and The Project on Indeterminate and Changing Environments: Law, the Anthropocene, and the World (The ICE LAW Project) (funded by the Leverhulme Trust, 2016-2019). He presently directs the Durham Arctic Research Centre for Training and Interdisciplinary Collaboration (DurhamARCTIC), where he supervises a Leverhulme Trust-funded program for delivering interdisciplinary training to 15 Ph.D. students between 2018 and 2023. His Arctic-related publications have appeared in leading journals including *Annals of the Association of American Geographers*, *Transactions of the Institute of British Geographers*, *Ocean Development & International Law*, and *Polar Record* and he has co-authored the book *Contesting the Arctic: Politics and Imaginaries in the Circumpolar North* (IB Tauris/Bloomsbury, 2015).

Dominique David-Chavez, National Science Foundation Postdoctoral Research Fellow, Native Nations Institute & Colorado State University Forest & Rangeland Stewardship Dept.

Dominique David-Chavez is a National Science Foundation postdoctoral research fellow working with the Native Nations Institute at the Udall Center for Studies in Public Policy at University of Arizona and Colorado State University's Department of Forest and Rangeland Stewardship. Her research contributions include an ongoing study on Indigenous data and research governance in environmental policy and decision-making, developing methods for community-based climate research and resilience in the Caribbean, and supporting pathways for decolonizing environmental sciences. Dr. David-Chavez draws from her experiences as a multi-cultural Caribbean Indigenous (*Arawak Taino*) research scientist in her scholarship and practice. In doing so, she holds an intergenerational commitment towards supporting culturally grounded community members, including youth, elders, educators, and farmers as researchers, restoring pathways for knowledge regeneration with the original stewards of Indigenous knowledge systems and lands in which they are embedded.

Julie Raymond-Yakoubian, Social Science Program Director, Kawerak, Inc.

Julie Raymond-Yakoubian is an anthropologist and the Social Science Program Director for Kawerak, Inc. Julie collaborates with Bering Strait region Tribes to document Traditional Knowledge on a variety of topics, and to share that information with resource managers, policy makers, and others. For more information please see www.kawerak.org/socialsci.html

Raychelle Aluaq Daniel, Program Officer, The Pew Charitable Trusts

Raychelle Aluaq Daniel grew up in Tuntutuliak, Alaska. She is currently with The Pew Charitable Trusts U.S. Arctic Program based in Washington D.C. She works on natural resource policy issues with a focus on marine ecosystems. Some of these issues include: bridging indigenous knowledge and science in decision-making, advancing the co-production of knowledge, identifying policy priorities from an indigenous perspective, and addressing the impacts from Arctic shipping, fishing and offshore oil and gas activity. She worked briefly for

the Department of the Interior on policy analysis of tribal climate resilience. She coordinated the development of a monitoring plan for marine ecosystems in the Pacific Island Network and has worked on marine mammal research projects in the Beaufort Sea and the Gulf of Alaska. She received her undergraduate degree in biology at the University of Alaska Southeast and earned her Master of Science degree at the University of British Columbia Fisheries Centre.

Nikoosh Carlo, Founder, CNC North Consulting

Dr. Nikoosh Carlo is founder and chief strategist at CNC North Consulting. She has extensive experience working to advance community-based solutions to climate change. She helps clients develop a vision for their climate and Arctic priorities, navigate building momentum to achieve change, and foster partnerships to drive forward movement. Dr. Carlo has a special interest in advancing initiatives that support climate equity and the health and well-being of Arctic residents and Indigenous peoples.

Dr. Carlo previously served as senior advisor for climate and Arctic policy to the Governor of Alaska (2017-18), a senior advisor at the U.S. State Department for the U.S. Chairmanship of the Arctic Council (2015-17), and the executive director of the Alaska Arctic Policy Commission (2013-15). Dr. Carlo is Athabascan Indian and has deep roots in the Interior Alaska communities of Fairbanks and Tanana, where she was raised. Dr. Carlo received a Ph.D. in neuroscience from the University of California San Diego and a B.S. in psychology from the University of Alaska Fairbanks.

Dan Stokols, Chancellor's Professor Emeritus, School of Social Ecology, UCI

Daniel Stokols is Chancellor's Professor Emeritus at the University of California, Irvine and served as founding dean of UCI's School of Social Ecology. His scholarship and professional contributions span the fields of social ecology, environmental and ecological psychology, public health, and transdisciplinary team science. Stokols has served as consultant to the National Academies of Sciences, Engineering, and Medicine, the National Institutes of Health, the National Science Foundation, the W.M. Keck and Robert Wood Johnson Foundations, and several community organizations. He is author of *Social Ecology in the Digital Age* (2018); co-author of *Behavior, Health, and Environmental Stress* (1986) and the National Academy of Sciences report on *Enhancing the Effectiveness of Team Science* (2015); and editor or co-editor of *Perspectives on Environment and Behavior* (1977), the *Handbook of Environmental Psychology* (1987), *Environmental Simulation* (1993) and *Promoting Human Wellness* (2002).

Carrie Hritz, Director of Research, The National Socio-Environmental Synthesis Center (SESYNC), University of Maryland

Dr. Carrie Hritz is the Director of Research at SESYNC where she leads the research programs, and communications. In this role, she works with leadership to develop calls for proposals, identify partnership and collaboration opportunities, and provides support for research teams throughout the project cycle. She is trained as a landscape archaeologist with expertise in using Geospatial spatial tools, and regional expertise in the Middle East, looking at the patterns of human-environment interactions during the period of the first urban cities. From 1999-2013, Carrie led archaeological fieldwork in Syria, Turkey, and Iraq, participating in one of the first projects to work in the southern Iraqi marshes since the late 1960s. From 2008-2014, Carrie was faculty at Penn State University and ran the Geospatial technologies lab in the Anthropology Department. After leaving her academic position, she served as a AAAS fellow in the Geosciences Directorate at NSF (2014-2015) and Branch Chief of Partnership Communication and Outreach in the Geography Division at the US Census Bureau (2015-2017). She has a BA in Anthropology from New York University, and a MA and PhD from the University of Chicago in Near Eastern Archaeology.

Amanda Carrico, Assistant Professor, Environmental Studies, University of Colorado, Boulder

Amanda Carrico is an Assistant Professor of Environmental Studies at the University of Colorado, Boulder. She is an interdisciplinary environmental social scientist. Her work draws on the fields of psychology (her home discipline), sociology, and demography to examine how individuals make environmentally relevant decisions. Her recent work focuses on the factors that lead to persistent pro-environmental behavior change, as well as processes of adaptation to environmental stress among agriculturalists. Dr. Carrico received a doctorate from Vanderbilt University and completed a postdoctoral fellowship at the Vanderbilt Institute for Energy and Environment. She has been a lead or co-investigator on several federally funded transdisciplinary projects, and recently completed work with the National Academy's Committee on Grand Challenges and Opportunities in Environmental Sciences and Engineering.

Colleen Strawhacker, Program Officer, Arctic Sciences Section, National Science Foundation

Dr. Colleen Strawhacker is the Program Director for the Arctic System Science and the Arctic Social Sciences Programs in the Office of Polar Programs at the National Science Foundation. She is currently on leave as a Research Scientist at the National Snow and Ice Data Center at the University of Colorado Boulder. Dr. Strawhacker earned her PhD in Anthropology from Arizona State University in 2013, where she focused on the archaeology of climate-driven risk and vulnerability to food security in the U.S. Southwest and the North Atlantic. Her expertise includes convergent research approaches spanning the natural and social sciences and developing cyberinfrastructure approaches for the social sciences and Indigenous Knowledge.

Liesel Ritchie, Associate Director and Associate Professor, Center for the Study of Disasters and Extreme Events and Department of Sociology, Oklahoma State University

Dr. Liesel Ritchie is Associate Director of the Center for the Study of Disasters and Extreme Events at Oklahoma State University and an Associate Professor in OSU's Department of Sociology. During her career, Ritchie has studied a range of disaster events, including the Exxon Valdez and BP Deepwater Horizon oil spills; the Tennessee Valley Authority coal ash release; Hurricane Katrina; and earthquakes in Haiti and New Zealand. Since 2000, her focus has been on the social impacts of disasters and community resilience, with an emphasis on technological hazards and disasters, social capital, and renewable resource communities, and she has published widely on these topics. Ritchie has more than 30 years of experience in research and evaluation. Ritchie has been PI or co-PI on more than 90 projects and authored or coauthored more than 85 technical reports working with agencies including NASA, NIST, NSF, USGS, FEMA, U.S. Department of Agriculture, NOAA, and U.S. Department of the Interior. She is a National Institute of Standards and Technology Disaster Resilience Fellow, as well as a Distinguished Senior Fellow with Northeastern University's Global Resilience Institute. In 2018, Ritchie served as a member of the National Academies of Sciences, Engineering and Medicine Committee for Measuring Community Resilience. She currently serves on two National Academies Advisory Boards—one for the Gulf Research Program and another for LabX.

Robert E. O'Connor, Social, Behavioral and Economic Sciences Directorate
National Science Foundation

Since 2001 Robert O'Connor has been directing the Decision, Risk and Management Sciences Program at the National Science Foundation. At NSF O'Connor also serves on the management teams for the Decision Making under Uncertainty for Climate Change centers and the Navigating the New Arctic Big Idea. Dr. O'Connor represented the National Science Foundation on the National Climate Assessment and Development Advisory Committee, a federal advisory committee that prepared the National Climate Assessment. He currently serves on the Subcommittee on Disaster Reduction of the National Science and Technology Council of the Executive Office of the President and chairs the NOAA/NSF Social Science Integration Working Group.

Prior to coming to NSF, Dr. O'Connor was a Professor of Political Science at the Pennsylvania State University. The U.S. Department of Energy, U.S. Environmental Protection Agency, the National Oceanographic and Atmospheric Administration, and the National Science Foundation funded Dr. O'Connor's research into public perceptions of cumulative, uncertain long-term risks such as climate change. Dr. O'Connor earned his undergraduate degree at Johns Hopkins University and his doctorate in political science at the University of North Carolina at Chapel Hill.

Toolbox Dialogue Initiative

Stephen Crowley, Associate Professor Department of Philosophy, Boise State University

Stephen Crowley is a member of the Philosophy Department at Boise State University and a member of the Toolbox Dialogue Initiative. He has research interests in experimental, social and virtue epistemology; engaged philosophy, STEM education and interdisciplinary communication.

Michael O'Rourke, Professor, Philosophy and AgBioResearch; Director, MSU Center for Interdisciplinarity

Michael O'Rourke is Professor of Philosophy and faculty in AgBioResearch and Environmental Science & Policy at Michigan State University. He is Director of the MSU Center for Interdisciplinarity (<http://c4i.msu.edu/>) and Director of the Toolbox Dialogue Initiative, an NSF-sponsored research initiative that investigates philosophical approaches to facilitating interdisciplinary research (<http://tdi.msu.edu/>). His research interests include epistemology, communication and epistemic integration in collaborative, cross-disciplinary research, and linguistic communication between intelligent agents.

Graham Hubbs, Chair and Associate Professor, University of Idaho

Graham Hubbs is Chair of the Department of Politics and Philosophy at the University of Idaho. He has been a senior member of the Toolbox Dialogue Initiative since 2014. His research focuses on practical rationality, social ontology, and interdisciplinary communication.