

Dartmouth



US-Canada Arctic Science Diplomacy and Leadership Workshop & Model Arctic Council (MAC)

**Dartmouth College
Hanover, New Hampshire
June 25-30, 2017**

List of Participants

Invited Speakers

Mary Albert

Dr. Mary R. Albert is Professor of Engineering at the Thayer School of Engineering at Dartmouth College. She is also Executive Director of the U.S. Ice Drilling Program Office. At Dartmouth she teaches classes on climate change and engineering on both the undergraduate and graduate level. The current research that Dr. Albert and her graduate students are addressing involves climate change in two ways: understanding evidence of past climate from polar ice cores, and also developing adaptation strategies and frameworks needed for communities under climate change. Dr. Albert has led and participated in many research expeditions on both the Greenland and Antarctic ice Sheets; Albert Valley, Antarctica is named after her. She has served as an invited member of the Polar Research Board of the National Academies (2002-2006), invited Chair of the U.S. National Committee for the International Polar Year (2003-2005), invited member (1998-2001) and Chair (2000) of the NSF Advisory Committee for the Office of Polar Programs. She has served as Invited Review Coordinator of three National Academies of Science reports, and she is a Lifetime National Associate of the National Research Council of the National Academies of Science. Dr. Albert earned her B.S. in Mathematics from Penn State University, B.E. and M.S. in Engineering Sciences from Dartmouth, and a Ph.D. (1991) in Applied Mechanics and Engineering Sciences from the University of California, San Diego.

Edward Alexander

Mr. Edward Alexander is the Vice-Chair of the Gwich'in Council International (GCI), which represents 9,000 Gwich'in in the Northwest Territories (NWT), Yukon, and Alaska as a Permanent Participant in the Arctic Council; the only international organization to give Indigenous peoples a seat at the decision-making table alongside national governments. GCI supports Gwich'in by amplifying their voice on sustainable development

and the environment at the international level to support resilient and healthy communities. Mr. Alexander also oversees all aspects of education and educational development for the 42 member tribes of the Tanana Chiefs Conference Region in interior Alaska. He is Gwichyaa Gwich'in from Fort Yukon, Alaska. Mr. Alexander is passionate about his language and ensuring that the next generation has access to quality educational opportunities rooted in their language and culture. He holds a Master of Education, secondary education and teaching, from the University of Alaska Fairbanks.

Troy Bouffard

Master Sergeant, U.S. Army (Ret.) Troy Bouffard, BA Political Science, MA Arctic Policy, is a term instructor at the School of Management at the University of Alaska Fairbanks. After the Gulf War, several Balkan tours, and two combat tours in Iraq, Mr. Bouffard retired from the U.S. Army as an E-8/Master Sergeant, master parachutist and jumpmaster instructor with 22 years of service. Afterwards, he served the State of Alaska in the 27th Legislature as chief of staff for a Fairbanks representative and regional delegation. Mr. Bouffard is currently full-time faculty for the Homeland Security and Emergency Management undergraduate and graduate programs. Mr. Bouffard is also a Department of Defense contractor with continued service to USNORTHCOM and the Alaskan Command for special Arctic programs and analysis. Over the last several years, he has participated in an extensive variety of Arctic diplomatic, scientific, operational, and academic events with travels and experiences in each of the Arctic nations.

Brandon Boylan

Dr. Brandon Boylan is an Associate Professor of Political Science and the Associate Director of Arctic and Northern Studies at the University of Alaska Fairbanks. His research areas include international relations, international security, political violence, terrorism, ethnic conflict, and separatist movements. His research has been published in *International Studies Perspectives*, *International Public Management Journal*, *Studies in Conflict and Terrorism*, *Nations and Nationalism*, and *Conflict Management and Peace Science*. Dr. Boylan is currently working on a book, *A Structural Opportunity for Terrorism: Communal Leadership Vacuums in Nationalist Movements*. His projects have been funded by the National Science Foundation, U.S. Department of Commerce, and the Norwegian Centre for International Cooperation in Education. At UAF, he is the faculty advisor to the Model United Nations club and faculty lead on the Model Arctic Council initiative. He teaches a range of undergraduate and graduate courses in international relations and research methods. Dr. Boylan holds a PhD in International Affairs from the University of Pittsburgh.

Melody Brown Burkins

Dr. Melody Brown Burkins is the Associate Director for Programs and Research in the John Sloan Dickey Center for International Understanding and Adjunct Professor in Environmental Studies at Dartmouth College. With over twenty years of experience in both academia and government, she is an advocate for policy-engaged scholarship across disciplines, for international education and partnerships, and for creating new opportunities for academics and professionals in science policy and diplomacy. She was an AAAS Congressional Science & Technology Fellow (1999-2000) and served in the U.S. Senate for three years as a policy advisor to U.S. Senator Patrick Leahy. Dr. Burkins' current interests focus advancing global, science-informed, collaborative initiatives investing in earth systems sustainability, greater civic engagement, and gender equality. She is Chair of the U.S. National Committee for Geosciences, serves as a member of the National Academies' Board on International Scientific Organizations (BISO), and is an appointed member to the 2017 ICSU-ISSC Planned Merger Strategy Working Group working to facilitate international collaborations across the natural, physical, and social sciences

for more sustainable solutions to global challenges. She also serves on the Governing Council of the Harvard-based Science Policy Exchange, was a HERS Fellow for women leaders in higher education, and is on the Board of Trustees for the Thetford Academy in Thetford, Vermont. Dr. Burkins received her BS in geology from Yale University and her PhD in earth and ecosystem sciences from Dartmouth College.

Mary Ehrlander

Dr. Mary Ehrlander is the Director of Arctic and Northern Studies and a Professor of History at the University of Alaska Fairbanks. She has published in *Alaska History*, *Pacific Northwest Quarterly*, and *Northern Review*, among others, and is a senior editor at *Northern Review*. Dr. Ehrlander's research interests include education policy; oil politics in Alaska; northern alcohol cultures, problems, and policies; and missionary history in Alaska. Her forthcoming book with the University of Nebraska Press, *Alaska Native Son, The Life of Walter Harper*, is the life story of the Irish-Athabaskan man who was the first person to stand atop North America's tallest peak, Denali, in 1913. Dr. Ehrlander teaches U.S. history, Scandinavian history, Canadian history, 20th century circumpolar history, and a graduate level introduction to the circumpolar north. She is also a thematic network lead for the UArctic Model Arctic Council. Dr. Ehrlander received her PhD in Government from the University of Virginia.

Joshua Glasser

Mr. Joshua Glasser is a Foreign Affairs Officer at the U.S. Department of State's Office of International Health and Biodefense, where he holds a portfolio focused on human health and the global environment. He has also served with the Department's Bureau of East Asian and Pacific Affairs and the Special Envoy for Climate Change. Mr. Glasser has worked on a variety of human-animal-environmental health ("One Health") issues, including in the Arctic region, Southeast Asia, and India, and in the context of the Global Health Security Agenda and the World Health Organization. He holds a Master of Science in Global Health and Population from the Harvard T.H. Chan School of Public Health, where his thesis focused on mapping human vulnerability to climate-related health risks. He has also studied as a Fulbright Scholar in Vietnam (2007-2008). Mr. Glasser joined the State Department as a Presidential Management Fellow in 2013; his work has been recognized with a Superior Honor Award, three Meritorious Honor Awards, and a Director's Award from the National Institutes of Mental Health.

Ann Meceda

Ms. Ann Meceda is a Foreign Service Officer with the U.S. Department of State. She currently serves as an Arctic Affairs Officer for the Bureau of Oceans and International Environmental and Scientific Affairs, where she works as the U.S. Head of Delegation to the Sustainable Development Working Group of the Arctic Council. During the fall of 2016, she was the acting chair of this group, supporting U.S. senior Arctic Officials and other key stakeholders on Arctic policy issues. Ms. Meceda has also been posted in Morocco, Germany, Slovakia, and Tunisia. She has an undergraduate degree in Mass Communication and Business from the University of California Los Angeles and earned a master's degree in Business Administration from the Haas School of Business at the University of California Berkeley.

Donna Moody

Dr. Donna L. Moody is a Tribal Elder in the Abenaki Nation and Director of the Winter Center for Indigenous Traditions. She has a PhD in Anthropology from the University of Massachusetts/Amherst. Dr. Moody is a cultural anthropologist whose research focuses on Native American Studies, African and African American Studies, the intersection of Native American, African American, and African peoples, the Atlantic Diaspora, and Inequality and Oppression.

Sean Nolon

Mr. Sean Nolon is the head of Dartmouth's Ombuds Office, and a professor of law at the Vermont Law School, where he is also the Associate Dean for Research and Faculty Development and the Director of the Dispute Resolution Program. Prior to joining Vermont Law School, he directed the Land Use Law Center and served as the executive director of the Theodore W. Kheel Center on Environmental Solutions at Pace University School of Law. Professor Nolon's scholarship has been cited by the Massachusetts Supreme Court. He is the author and co-author of *Land in Conflict: Preventing and Managing Land Use Disputes*. His articles have been published in the law journals of Florida Law School, Fordham University, Yeshiva University's Cardozo Law School, University of Oregon, Idaho University, and Pace Law School. He has designed and taught courses at Vermont Law School, Pace Law School, Yale School of Forestry and Environmental Studies, University of Nevada-Las Vegas, Northeastern, Pepperdine and Dartmouth College. He is also an experienced litigator, mediator and arbitrator specializing in public policy, environmental, and complex commercial disputes.

Elizabeth (Lisa) Rom

Ms. Lisa Rom is a Program Director for the Office of Polar Programs (OPP) and the Division of Ocean Sciences (OCE) at the National Science Foundation. She acts as a liaison for education activities within OPP, covering both Arctic and Antarctic issues, and is responsible for OCE's Research Experience for Undergraduate (REU) program, a program that provides research internships for undergraduates. From 2000-2014, she was responsible for long-range planning for the Centers for Ocean Science Education Excellence (COSEE), a set of centers around the nation that connected ocean researchers with formal and informal educators. She has a MS in marine geology from Duke University, and worked at the Joint Oceanographic Institutions as an assistant program manager for NASA and NOAA ocean satellite data management programs from 1986-1989 before moving to NSF.

Leah Sarson

Dr. Leah Sarson is a Social Sciences and Humanities Research Council of Canada (SSHRC) post-doctoral fellow at Dartmouth College, where she is a post-doctoral fellow at the Dickey Center for International Understanding, a Visiting Arctic fellow at the Institute of Arctic Studies, and a fellow in the Gender Research Institute at Dartmouth (GRID). She is also a junior Visiting Fellow at the Bill Graham Centre for Contemporary International History at the University of Toronto and a former Fulbright visiting fellow at the Dickey Center. Her current research explores multilevel governance and Indigenous politics in the extractive resource sector, while her broader research interests focus on Canadian foreign policy, International Relations, gender, and the Arctic. She received her PhD in Political Studies from Queen's University in Kingston, Ontario, where she is also a fellow at the Centre for International and Defence Policy. Dr. Sarson has also held professional positions at Simon Fraser University, the Asia Pacific Foundation of Canada, and Global Affairs Canada, among others.

Gabrielle Slowey

Dr. Gabrielle Slowey is the inaugural Fulbright Chair in Arctic Studies (2016-2017), at the Dickey Center for International Understanding and the Institute of Arctic Studies at Dartmouth College. She currently serves as the Director of the Robarts Centre for Canadian Studies at York University in Toronto, Ontario, where she is an Associate Professor in the Department of Political Science. She teaches courses in Canadian, Aboriginal and Arctic Politics. Her current research investigates the intersection between ecological governance, unconventional resource extraction, Indigenous peoples, and the state in multiple regions (ranging from the provincial north, i.e. Northern Alberta, Northern Quebec, Northern Ontario, to the Arctic proper, including Yukon, NWT and

circumpolar north). Her current research concentrates on pressures to develop shale gas reserves and investigates the variation in response by local communities. She is the author of *Navigating Neoliberalism: Self-Determination and the Mikisew Cree First Nation* (UBC Press, 2008) and numerous publications. Dr. Slowey received her PhD in Political Science from the University of Alberta.

Ross Virginia

Dr. Ross Virginia is an ecosystem ecologist and member of the Environmental Studies Program faculty. He is interested in how rapid environmental change affects ecosystems and society and the relationships between the disciplines of ecology, ecosystem science, and environmental law. Dr. Virginia is active in Arctic policy and global environmental issues as Director of Dartmouth's Institute of Arctic Studies at the Dickey Center for International Understanding, and as co-Director of the University of the Arctic Institute for Arctic Policy. He is also one of two distinguished lead scholars for the Fulbright Arctic Initiative. Dr. Virginia received his PhD in Ecology from the University of California Davis.

Kah Walla

Ms. Kah Walla is a political leader, activist and entrepreneur from Cameroon. She is the CEO of STRATEGIES!, a leadership and management consulting firm she founded twenty years ago. She is the current president of the Cameroon People's Party (CPP) she joined in 2010. In 2011, she became the first woman to ever run for the presidential election in Cameroon. Ms. Walla was recognized in 2008 by the World Bank as one of seven women entrepreneurs working to improve the business environment in Africa and in 2011, *Newsweek* and *The Daily Beast* cited her as one of 150 women who shake the world and *New African* named her one the 100 most important Africans. Ms. Walla is also a social activist, president of the Cameroon Gender and Development Network, and founder of Cameroon Ô'Bossô, a citizenship movement to help the grassroots organize to defend its interests.

Tina Woods

Dr. Tina Woods is the Senior Director of Community Health Services at The Alaska Native Tribal Health Consortium. She is Aleut originally from St. Paul Island, Alaska and Chamorro from the Island of Guam. She is a licensed clinical psychologist and received a PhD in Clinical-Community Psychology with a Rural Indigenous Emphasis from the University of Alaska Anchorage. She has worked within the Alaska Tribal Health System for over 15 with majority of her time as an administrator for the Aleutian Pribilof Islands Association (APIA). Her dissertation focused on Talking Circles as a tool to help others begin their healing journey. She respectfully blends both Western science and indigenous practices based on teachings from Elders. Dr. Woods sits on the Data Safety Monitoring Board Member for the HEALTHH Study—Healing and Empowering Alaskan Lives Toward Healthy Hearts Project, the UAA Psychology Department's Community Advisory Board (PCAB) and is a member of the Alaska Public Health Association (ALPHA) and American Psychological Association (APA). She is also a committee member of the Criminal Justice Commission Workgroup on Behavioral Health, and is Alaska Opioid Policy Task Force—Committee Member and is co-chair of the writing team for the 1115 Behavioral Health Waiver Demonstration Project.

Oran Young

Dr. Oran Young is a renowned Arctic expert and a world leader in the fields of international governance and environmental institutions. His scientific work encompasses both basic research focusing on collective choice and social institutions and applied work dealing with the atmosphere, oceans, polar regions, and environmental governance in China. Now an Emeritus Professor, Dr. Young still serves as a co-Director of the Program on

Governance for Sustainable Development at the Bren School of Environmental Science and Management at the University of California Santa Barbara. He has served as the Director of the Institute of Arctic Studies at Dartmouth College and Adjunct Professor of Political Science at the University of Tromsø in Norway. He has been vice-president of the International Arctic Science Committee, the founding chair of the Committee on the Human Dimensions of Global Change within the National Academy of Sciences in the United States, chair of the Scientific Committee of the International Human Dimensions Programme on Global Environmental Change, first chair of the board of governors of the University of the Arctic, and chair of the Steering Committee of the Arctic Governance Project. Among the more than 20 books he has authored are *The Institutional Dimensions of Environmental Change*, *Governance in World Affairs*, and *Institutional Dynamics: Emergent Patterns in International Environmental Governance*. His new book, published this year, is *Governing Complex Systems: Social Capital for the Anthropocene*. He has also been a member of the faculties of Princeton University, the University of Texas, Austin, the University of Maryland, College Park, and Dartmouth College.

Student Participants

Justin Barnes

Mr. Justin Barnes is a graduate student in the Masters of Sustainability Studies (MASS) program at Trent University in Peterborough, Ontario. As part of the MASS program at Trent, Justin's thesis research is focused on contributing to an understanding of how federal maritime infrastructure investments resulting from safety and security concerns in the Arctic Ocean impact the sustainable development of coastal communities in Canada's North. Mr. Barnes is interested in understanding how the intersection of science and diplomacy that occurs within cross-scale organizations such as the Arctic Council can help to mitigate the vulnerabilities of northern communities to climate change through the promotion of community engagement, research collaboration, sustainable development and environmental protection within Northern Canada and the changing circumpolar North.

Denae Benson

Ms. Denae Benson is a junior in the History department at the University of Alaska Fairbanks focusing her studies in United States' History, Government, and Civics with a minor in Spanish. History and civic responsibility have always been large areas of interests for Ms. Benson. In her senior year of high school, she competed in the national "We The People" speech competition and in the summer of 2015 she interned in the office of Alaska Senator Lisa Murkowski in Washington D.C. Denae has lived in Alaska most of her life and is of Koyukon Athabascan and Inupiak descent. In the summers she works as a native guide educating Alaska's visitors on Alaska Native culture, history, and current events. In the fall she will take the first steps in her career as an educator, substitute teaching the Fairbanks North Star Borough School District.

Lauren Bishop

Ms. Lauren Bishop is majoring in history and minoring in public policy with a focus on foreign affairs at Dartmouth College. This past fall, Lauren interned at the White House under President Obama in the Office of Presidential Correspondence where she read and responded to letters from the American people on behalf of the president. In March of 2016, Lauren participated in the Model Arctic Council in Fairbanks, Alaska as the representative for Sweden on the Protection of the Marine Environment Working Group. She has a passion for traveling and has visited 24 countries as well as Antarctica. Lauren is the Under Secretary General for Historical and Future Crisis Committees within Dartmouth's Model United Nations Team, as well as a War and Peace Fellow, and a student assistant within the Nelson A. Rockefeller Center for Public Policy.

Michael Brown

Mr. Michael Brown is an MA candidate at the Jackson School of International Studies and the Evans School of Public Policy at the University of Washington. Mr. Brown's research interest in the Arctic began with an undergraduate capstone project and was cemented by a Fulbright project in northern Finland in 2014. More recently, he has continued studying the Arctic at the University of Washington as an International Policy Institute Fellow. His broader research interests include climate politics, the sociology of climate change, and climate communication.

Victor Cabrera

Mr. Victor Cabrera is a sophomore at Dartmouth College. He is from Miami, Florida and currently studies Earth Sciences. His academic focus lies in glaciology and cold regions geology. After college, Victor plans to pursue advanced degrees in geology and eventually hopes to become a professional researcher in his field. Victor has worked with the Ocean Exploration Corps, the Joint Science Education Program, the Chilean Antarctic Institute, and various bodies within Dartmouth College to add perspective and depth to his studies. On campus, Mr. Cabrera is the head of the Dartmouth Council on climate change and an active member of the Dartmouth Outing Club.

Victoria Chi

Victoria Chi is from New York, but Dartmouth has been her home for the past four years. She recently graduated from Dartmouth as a Government and Biology double major. During her time here, she enjoyed doing political science and biomedical research, coordinating a volunteer program where students teach a GED class to incarcerated youth, and completing internships at CDC. After staying on campus this summer to continue her undergraduate thesis work in Government, she will return to New York for a year to do clinical research and public health work at a children's hospital. She is pursuing a career in medicine and global health, but in the meantime she's so excited to participate in this year's Model Arctic Conference.

Emma Cutler

Ms. Emma Cutler is pursuing a PhD in Engineering Sciences from the Thayer School of Engineering at Dartmouth where she studies climate change impacts in coastal communities. She uses computational methods to evaluate non-structural adaptation strategies to reduce risk from sea level rise and flooding. She is also interested in disaster response and recovery from extreme weather events. Before coming to Dartmouth, Ms. Cutler was a Fulbright researcher in Sri Lanka where she studied sustainable development and agriculture, focusing on organic small-holder tea production, youth empowerment, and urban farmers' markets. She holds a BA in Math and Environmental Studies from Bowdoin College where she wrote a thesis on energy balance climate models.

Owen Fulton

Mr. Owen Fulton studies secondary education and history at the University of Alaska Fairbanks, and is working on a minor in political science. He grew up in the small town of Sitka, Alaska and has had several fieldwork experiences working in high schools around Fairbanks. Mr. Fulton hopes to teach in an Alaskan high school following the completion of his studies. In addition to his passion for history, he is deeply interested in political science.

Nicole Halseth

Ms. Nicole Halseth is a Masters candidate with the Norman Paterson School of International Affairs at Carleton University in Ottawa, Ontario, specializing in conflict analysis and resolution. She has worked on Arctic environmental issues, particularly black carbon, at Environment and Climate Change Canada and Natural Resources Canada. Her current research interests include the participation of Observers in the Arctic Council, and the impacts of climate change on Arctic communities.

Erin Hamilton

Ms. Erin Hamilton is pursuing her Masters of Biology at Queen's University, in Kingston, Ontario. Her research, encompassed by the Toward a Sustainable Fishery for Nunavummiut (TSFN) Genome Canada project, aims to characterize the skin-associated microbiomes of Arctic char and lake whitefish in the lower Northwest passage within the Kitikmeot region of Nunavut. Ms. Hamilton argues that it is important to characterize the microbiomes of fish to infer the functions these microbes serve and how they may contribute to fish immunity. Outside of the lab, Ms. Hamilton is passionate about promoting education in water conservation and stewardship.

Sydney Kamen

Ms. Sydney Kamen is a junior at Dartmouth College, a Geography major and Global Health minor, and a U.S. Army Cadet. She is passionate about global health, international development, and human rights. She is also the founder of So Others Are Protected (SOAP), a self-empowerment initiative solving issues surrounding sanitation and the spread of disease in the under-resourced world. To date, SOAP has 14 community partners, 13 hotel partners around the world, and have together produced and distributed over 50,000 bars of recycled soap.

Carolyn Kozak

Ms. Carolyn Kozak is a graduate student in Arctic and Northern Studies at the University of Alaska Fairbanks. Prior to moving to Fairbanks in January 2016, Ms. Kozak worked as a curator and public programmer for the Anchorage Museum at Rasmuson Center for over six years, which sparked a tireless intellectual curiosity for the circumpolar north. Since joining the UAF campus, Ms. Kozak has been selected as a student ambassador to the University of the Arctic (UArctic), a cooperative network of universities, colleges, research institutes and other organizations concerned with education in the North. She participated in the first fully international Model Arctic Council in March of 2016 and attended the UArctic Congress in St. Petersburg, Russia as part of her student ambassadorship. Ms. Kozak is currently focused on co-management efforts throughout interior Alaska and works to connect local knowledge and observations with scientists, business leaders, and other stakeholders in the Department of Natural Resources. Ms. Kozak's research interests include Arctic history and policy, image literacy, and media messaging of climate change. In her free time she enjoys everything outdoors: hiking, camping, rowing, biking, skiing, and volunteering for Junior Nordic.

Ian Lee

Mr. Ian Lee is working on his MS in Glaciology in the Earth Sciences Department at Dartmouth College. His focus is on ice rheology, and specifically attempting to understand the nature of ice flows in wet-based glaciers through borehole geophysics, utilizing tilt sensors installed in boreholes. Mr. Lee lived in Singapore most of his life before coming over to do his undergraduate at the University of Washington, Seattle and later his MS at Dartmouth. He has a strong interest in glaciers and the polar regions, scientific or otherwise.

Kelsey Lee

Ms. Kelsey Lee is a first year PhD student at Durham University. She received her master's degree from the University of Edinburgh in 2013, and earned High Distinction on her dissertation pertaining to the cultural and social significance of Arctic wildlife and reindeer in Norwegian Sámi herding communities. Her doctoral research is dedicated to the links among visual anthropology, ecopolitics, and cultural visibility in Norwegian Sámi film and art.

Val Muzik

Ms. Val Muzik studies and writes about how the Arctic and climate change, taken together as well as separately, are understood in political discourse, with other related interests including security, perception, circumpolar Indigenous politics, climate science, language, and Arctic sovereignty claims. Based in Canada, Ms. Muzik writes a weekly news analysis for The Arctic Institute, a Washington, D.C.-based think tank focused on circumpolar security, and also has a background in diplomacy and conflict resolution through Koç University (Istanbul). She received her BA in Political Science from York University and her MA in International Relations at McMaster University. She is pursuing her PhD in Political Science at McMaster University in Hamilton, Ontario.

Sean O'Rourke

Mr. Sean O'Rourke is a graduate student in the MA program at the University of Northern British Columbia, where he focuses on psychology and international northern development and psychology. His research interests include the epigenetic and neurophysiological correlates of 'historical trauma', cultural identity, and how various social and environmental factors affect the mental health outcomes of Indigenous peoples.

Alexander Rautenberg

Mr. Alexander Rautenberg is pursuing his PhD in Environmental Physics at the University of Tübingen. His research aims to enhance the atmospheric turbulence measurement system and he began with his first measurement campaign on a German island in open sea. In 2016, he led the ISOBAR (Innovative Strategies for Observation in the Arctic Atmospheric Boundary Layer) project and started to prepare the measurement campaigns and conducted fieldwork in Norway and Finland. Prior to beginning his PhD, he studied aerospace engineering at the University of Stuttgart and finished as Dipl.-Ing (equivalent to a master's degree) and worked as a CFD-simulation engineer.

Brandon Ray

Mr. Brandon Ray is a master's student at University of Washington's (UW) Jackson School of International Studies and School of Marine and Environmental Affairs, having completed his MS in Atmospheric Sciences. Mr. Ray is currently studying Arctic energy policies surrounding the transition to renewable energy. He was a member of the 2016 Model Arctic Council in Fairbanks, where he was the U.S. delegate to the PAME working group (Managing Marine Traffic project). A naval officer of eleven years, Mr. Ray is also interested in how climate change has been incorporated into national security strategies, focusing specifically on the Arctic.

Allison Rychtanek

Ms. Allison Rychtanek is a senior at the United States Coast Guard Academy in New London, Connecticut. Her research interests focus on marine and environmental science with concentrations in chemistry and physical oceanography. She has recent experience with the International Ice Patrol, where she helped track icebergs in the

Northern Atlantic and Labrador Sea. She hopes to pursue graduate work in oceanography and her career aspirations center on the Coast Guard.

Alliana Salanguit

Ms. Alliana Salanguit is a student at the University of Alaska-Anchorage where she is pursuing a BA in Economics with minors in Mathematics, Political Science, and French. She is passionate about economics and her favorite fields include development, labor, and natural resource economics. She is equally passionate about policy and especially arctic policy. She was a participant in the 2016 Model Arctic Council and represented Alaska at the Arctic Frontiers International Student Forum this past January. Along with being a student, Ms. Salanguit also works in the Alaska State Legislature as staff to Representative David Guttenberg.

Judith Savoie

Ms. Judith Savoie is a master of environmental science student at Memorial University of Newfoundland (MUN). Ms. Savoie completed a bachelor in environmental chemistry and bioresources at the Université du Québec à Rimouski (UQAR). She is interested in ecotoxicology, in identifying contaminants and thereafter finding ways to protect the environment. She is also interested in northern environments, where there is much to discover and learn by collaborating with the communities from the North. Ms. Savoie's research involves developing tools for ensuring food safety and security for Labrador indigenous communities living around Lake Melville. Specifically, determining the river of origin of the Lake Melville Atlantic salmon population by using otolith microchemistry, quantifying the heavy metals contamination in the muscle tissue of the salmon, and assessing the potential of an analytical system for mercury quantification in Labrador.

Max (Gordon) Showalter

Mr. Max (Gordon) Showalter is a PhD student at the University of Washington, where he studies biological oceanography and astrobiology, with a focus on microbial ecology of sea ice in the Arctic. His master's thesis focused on the ecological importance of bacterial swimming at subzero temperatures, while his dissertation work involves isolation and characterization of novel bacteriophage viruses from sea ice and cryopeg brines. His research interests include policy-making in the Arctic as it pertains to environmental stewardship, international geopolitics, and indigenous communities. He is interested in understanding the role of scientific knowledge in policy making in the Arctic, and how scientific collaborations in the region can promote stronger ties between international and internal communities while promoting a responsible development of Arctic infrastructure.

Carolyn Stwertka

Ms. Carolyn Stwertka is a 4th year PhD student at Thayer School of Engineering at Dartmouth College. She holds a MSc in Atmospheric Sciences from the University of Utah. Her master's research focused on carbon dioxide transport in complex urban terrain. Her PhD research focuses on complex system design to prepare American communities for the changing climate. She is currently an ORISE fellow with the U.S. Army Corps of Engineers. Her first two years at Dartmouth were spent studying mechanics of sea ice and the ice-albedo feedback. She spent four weeks on a four-person snowmobile traverse across northwestern Greenland and five weeks on the U.S. Coast Guard Icebreaker "the Healy". Her scientific interests are in Arctic and Antarctic scientific exploration, science policy, complex socio-technical systems, and education.

Ronja Wedegärtner

Ms. Ronja Wedegärtner discovered her passion for extreme environments hiking in Iceland and Northern Sweden. She wanted to understand and protect nature better and subsequently pursued a B.Sc. and a M.Sc. of Geo-ecology at the University of Tübingen in Germany. Ms. Wedegärtner researches the effects of climate change on the distribution of plants. While any excuse to be in the mountains or the tundra is a good one, fieldwork is the best one she has found so far. She is also interested in outdoor education and science communication. She wants to learn more about involving all stakeholders affected by a changing climate, because she fears science will only be an echo chamber otherwise.

Leehi Yona

Ms. Leehi Yona is a Canadian and Master of Environmental Studies candidate at the Yale School of Forestry and Environmental Studies, where she is researching the ecology and political science of climate change and soil carbon. She is a passionate youth climate justice organizer and completed her undergraduate degree at Dartmouth, where she conducted research in the Arctic and the United Nations climate conferences.