

RESEARCH TO ACTION: ADVANCING URBAN SUSTAINABILITY

Agenda

1:00 pm

Welcome & Opening Remarks

1:15 pm

Guest Speaker: Angela Danyluk, Senior Environmental Specialist, City of Vancouver

1:55 pm

Panel Sessions Open

2:00 pm

Concurrent Panel Sessions

Better World | Moderator: Katherine Nichol, Kore Global | Breakout Room A

Biodiversity | Moderator: Marjo Vierros, Coastal Policy and Humanities Research Consulting | Breakout Room B

Capacity Building | Moderator: Peter Sun, Vancouver Economic Commission | Breakout Room C

Energy & Emissions | Moderator: John Calimente, City of Vancouver | Breakout Room D

Sustainable Health Care | Moderator: Aubree McAtee, UBC Faculty of Medicine | Breakout Room E

2:55 pm

Break/Transition

3:00 pm

Concurrent Panel Sessions

Land, Water & Resource Management | Moderator: Cynthia Fell, T̓silhqot̓'in National Government | Breakout Room A

Living Shorelines & Habitat Restoration | Moderator: Ali Nayeri, City of Vancouver | Breakout Room B

Mobility & Sustainable Transportation | Moderator: Carly Johansson, Community Energy Association | Breakout Room C

Energy & Emissions | Moderator: Mehmud Iqbal, FortisBC | Breakout Room D

Agriculture & Food Security | Moderator: Cait Murphy, UBC Sustainability Hub | Breakout Room E

3:55 pm

Break/Transition

4:00 pm

Concurrent Panel Sessions

Resilient Communities | Moderator: Gaëtane Carignan, Community Energy Association | Breakout Room A

Water Systems | Moderator: David Blair, Metro Vancouver | Breakout Room B

Sustainable Transportation | Moderator: Amaiya Khardenavis, Wood Mackenzie | Breakout Room C

Livable Cities | Moderator: Glen Cheetham, City of Kamloops | Breakout Room D

5:00 pm

Conference Ends

Panel Sessions: Detail View

	Better World (Room A) Moderator: Katherine Nichol, Kore Global	Biodiversity (Room B) Moderator: Marjo Vierros, Coastal Policy and Humanities Research Consulting	Capacity Building (Room C) Moderator: Peter Sun, Vancouver Economic Commission	Energy & Emissions (Room D) Moderator: John Calimente, City of Vancouver	Sustainable Healthcare (Room E) Moderator: Aubrey McAtee, Faculty of Medicine
2:00 – 2:55 pm	<ul style="list-style-type: none"> Defining feminist approaches to organizational strategy development (Hilal Kina) Research to support safe, accessible, and comfortable experiences at voting places (Isabel Chew) Research to understand the benefits of granting practices that support grassroots organizing (Natacha Monestel Mora) 	<ul style="list-style-type: none"> Identifying and assessing climate change indicators in the Fraser estuary (Ian Chambers) Toolkit to support wildlife management in Tšilhqot'in Territory (Orna Phelan) Strategic plan for management of invasive species (Kephra Beckett) Re-connecting community to the urban marine environment (Maggy Spence) 	<ul style="list-style-type: none"> Virtual Community Engagement on Climate Impacts and Preparedness in Northeast BC (Madelaine Parent, Margaryta Pustova, Giulia Belotti) Research to fill the training gap for Indigenous audiences on high-performance building and energy management (Rashi Chaturvedi) Building toolkits to support remote Indigenous communities transition to sustainable energy systems (Rudri Bhatt) 	<ul style="list-style-type: none"> Leveraging existing policies to reduce embodied carbon in retrofits (Haonan Zhang) Building form and features for high performance building design (Sarah Garland) Embodied carbon in innovative Fenestration Materials (Shiva Zargar) Whole life carbon contribution of parking spaces (Thais Ayres Rebello) 	<ul style="list-style-type: none"> Mitigating the environmental impacts of anesthetic gases in healthcare (Alpamys Issanov) Advancing sustainable health care innovations through a policy and engagement strategy (Andrews Nartey) Aligning safer chemicals with patient care in BC health-care facilities (Jerry Achar)
Break 2:55 – 3:00 pm					
	Land, Water & Resources (Room A) Moderator: Cynthia Fell, Tšilhqot'in National Government	Living Shorelines & Habitats (Room B) Moderator: Ali Nayeri, City of Vancouver	Mobility & Sustainable Transport (Room C) Moderator: Carly Johansson, Community Energy Association	Energy & Emissions (Room D) Moderator: Mehmud Iqbal, FortisBC	Agriculture & Food Security (Room E) Moderator: Cait Murphy, UBC Sustainability Hub
3:00 – 3:55 pm	<ul style="list-style-type: none"> Regulations governing human activities in the Fraser (Audrey Irvine-Broque) Carbon sequestration value of Victoria's urban forest (Pramila Khatri Chhetri) Interweaving Traditional Knowledge in Lake Assessment Protocols (Yiming Zhang) Challenges in interweaving Indigenous Knowledge and Values (Bryce Henney) 	<ul style="list-style-type: none"> Living shoreline alternatives for the Stanley Park seawall (Brontë Mutukistna) Alternative breakwater materials for habitat restoration (Emma Gosselin) Assessing the potential for flood risk mitigation and salmon habitat restoration in the Lower Fraser (Sadia Ishaq) 	<ul style="list-style-type: none"> Analyzing collision data to identify priority locations for road safety improvements within the City of Vancouver (Gurdil Gill) Understanding the Impacts of Urban and Invisible Freight (Elmira Berjisian and Madison Lore) 	<ul style="list-style-type: none"> Analysis of community energy and emissions data to understand progress toward reaching targets (Hana Nguyen) Equity Impacts of Energy Submetering & Low Carbon Building Policies (Haowen Wu) Retrofit design options and incentives for climate resilient apartments (Tsubasa Bolt) Capacity-building needs of heat pump retailers and installers (Guarav Singh) 	<ul style="list-style-type: none"> Planning for Future Food Systems (Policy, practice and the rural/urban divide) (Gabrielle Edwards) Agricultural land use regulations in the context of Indigenous food security (Jessica Mukiri) Traditional foodlands in the Fraser Estuary (Katharine Baldwin)
Break 3:55 – 4:00 pm					
	Resilient Communities (Room A) Moderator: Gaëtane Carignan, Community Energy Association	Water Systems (Room B) Moderator: David Blair, Metro Vancouver	Sustainable Transportation (Room C) Moderator: Amaiya Khardenavis, Wood Mackenzie	Livable Cities (Room D) Moderator: Glen Cheetham, City of Kamloops	
4:00 – 4:55 pm	<ul style="list-style-type: none"> Toolkits and resources to enable the creation of circular innovation districts in other jurisdictions (Joshua Ayer) Policy framework for integration of transit stations with affordable housing development (Mélanie Wittes) 	<ul style="list-style-type: none"> Assessing the viability of innovative testing methods to monitor bacteriological activity in the water supply system (William Chen) Research to establish innovation and training spaces within Wastewater Treatment Plants (Joshua Yang) Reclaimed water benefits and cost saving evaluation in the context of Metro Vancouver (Ana Patino) 	<ul style="list-style-type: none"> Supporting Metro Vancouver's Fleet Climate Action Strategy (Daniel Stauff) Comparative life cycle analysis of heavy-duty vehicles fueled by renewable diesel, electricity or hydrogen fuel cells (Sandun Wanniarachchi) Options for end-of-life disposal/reuse of electric bus batteries (Eshita Swain) 	<ul style="list-style-type: none"> Contribution of urban street furniture to climate change resiliency and sustainability (Amy Liebenberg) Development of a Green and Blue-Green Roof Information Portal (Michael Peterson) Reducing the impacts of street/sidewalk pavement rehabilitation on the urban forest (Trey Schiefelbein) Research to support development of a decision framework for climate resilient asset management (Varun Gupta) 	

Panel Presenters

Alpamys Issanov is a PhD student in the School of Population and Public Health at UBC. He holds a Master's degree in Public Health from UBC, and his primary research interests are developing a prediction model for lung cancer in never smokers using large population-based databases.

Amy Liebenberg is in the Indigenous Community Planning cohort at the School of Community and Regional Planning. She is a settler from South Africa who has an interest in arts, culture, heritage, and public spaces. She is interested in sustainable development in urban and rural spaces, and across sectors, and the collaboration therein.

Ana Patino recently completed her Masters in Food and Resource Economics at UBC. Previously she worked as an economic assessment consultant for the natural resources sector, advising and evaluating sectors such as agriculture, energy, and more recently water systems. She is currently working as a social performance specialist, analyzing the perception of communities and the effect of social programs implemented in different regions.

Andrews Nartey recently completed a Master of Public Health degree at the School of Population and Public Health, UBC. He is a trained optometrist by profession and holds an MSc in Vision Science. He is keen about evidence-based public health intervention and healthcare sustainability. In his current role as an evaluation consultant, he applies mixed methods research to evaluate health and social care programs.

Audrey Irvine-Broque (she/her) is a salt marsh enthusiast and graduate student in the Department of Geography at UBC. Her research focuses on the political economic structures that drive biodiversity decline, from provincial policies subsidizing defaunation to international patterns of debt and austerity and their implications for ecosystem loss. As a part of the Fraser Estuary Research Collaborative, Audrey evaluated the regulations governing land use across the Fraser estuary.

Brontë Mutukistna is a second-year Master of Landscape Architecture student at the School of Architecture and Landscape Architecture. She is interested in the multi-faceted role of landscape design to engage with spatial justice, social equity, and ecological sustainability.

Bryce Henney is a settler from Metro-Detroit completing the Indigenous Planning Concentration within the School of Community and Regional Planning. Bryce hopes to take the burden off Indigenous communities by uplifting settlers' consciousness and operating paradigms to support co-design, co-existence, and collaboration (reconciling ways of knowing) in the context of sustainability and resiliency planning.

Daniel Stauff is a professional engineer with 5+ years of experience working in the oil and gas and nuclear power industries. He is currently completing a Masters of Engineering Leadership in Clean Energy Engineering and is excited to be a contributor to the sustainable energy transition.

Elmira Berjisian is a Ph.D. candidate in transportation engineering. Her primary research is on bicyclists' preferences for speed and routes using GPS data. As a sustainability scholar, she collaborated with Madison Lore to understand the impacts of traditional and invisible freight. Their research focuses on the parking activity of various freight operators within Metro Vancouver.

Emma Gosselin is entering her final year in the Master of Landscape Architecture program at UBC. She is passionate about designing landscapes for biodiversity enhancement and climate adaptation in urban settings. She is also interested in how coastal infrastructure can be integrated with habitat to make shore zones more resilient with sea level rise.

Eshita Swain (she/her) is a student in the Master of Engineering Leadership program, specialising in clean energy engineering. She is a chemical engineer by background and worked as an energy professional before joining UBC. As a Sustainability Scholar she worked with Translink to perform a feasibility analysis in order to deal with retired batteries, which, she says, is the dark side of e-mobility and needs immediate attention.

Gabrielle Edwards (she/her) is a PhD candidate in the Department of Curriculum and Pedagogy Studies at UBC whose research focuses on whole school approaches to sustainable food education and food citizenship. Gabrielle is passionate about food and environmental education and empowering the next generation to be actors of change in their communities.

Giulia Belotti (she/her) is a second-year graduate student at the Institute for Resources, Environment and Sustainability. She has a background in political science and international relations and her current research focuses on governance of energy and sustainability transitions. She strongly believes in the possibility of achieving structural change within society and she wants to work towards a more sustainable, inclusive and just world.

Gaurav Singh (he/him) is a student in the Master of Engineering Leadership program, specialising in clean energy engineering. Before joining UBC, Gaurav worked for more than a decade in clean energy products and technologies, and HVAC system installations.

Gurdil Gill is a Ph.D. candidate at UBC in the department of Civil Engineering. His primary research interest is in road users' interactions with self-driving vehicles. As a Sustainability Scholar with the City of Vancouver, he identified the streets with the most collisions so that such streets could be prioritized for safety improvements.

Hana Nguyen is a master's student in the Master of Engineering Leadership program focussing on Clean Energy Engineering. She has 5+ years of experience in the renewable energy sector, focusing on technology adoption and energy policy. Her research interests are sustainability, energy transition, and climate change mitigation.

Haonan Zhang is a PhD student majoring in Civil Engineering. His research mainly focuses on developing a decision support framework to help stakeholders choose the best retrofit options to improve building energy efficiency and reduce associated greenhouse emissions.

Haowen Wu is currently pursuing a Masters of Engineering Leadership degree in Clean Energy Engineering. His experience has been in technology research and project management. For the past five years, he has been working in the electricity sector especially in power demand response and metering technologies.

Hilal Kina is a PhD candidate in the Department of Anthropology at UBC. She holds a Master's degree in Cultural Studies. For her PhD research she has been working with the Armenian community in Turkey on issues of memory, identity and discrimination. As a Sustainability Scholar she researched how organizational and programmatic strategy development can be more aligned with feminist principles such as inclusion and decolonization.

Ian Chambers is an MSc student at UBC studying mathematical biology. Ian holds Bachelors degrees in zoology and mathematics and his current work uses mathematical models to investigate population dynamics of different species to guide their management efforts.

Isabel Chew is a final year PhD candidate in Political Science where she does research on identity politics. She has a decade of experience working in the policy and higher education sectors, with a particular focus on capacity building, communications, data analysis, and equity work.

Jerry Achar is a Ph.D. candidate at the Institute for Resources, Environment, and Sustainability. His research involves the characterization of uncertainty in the use of the alternatives to animal testing methods (e.g., computational in silico methods) for human health risk assessment of chemicals.

Jessica Mukiri (she/her) is a Ph.D. student at the Institute for Resources, Environment and Sustainability (IRES), working under the supervision of Dr. Navin Ramankutty. This summer she explored agricultural land use regulations in the context of Indigenous food security. Her research helped highlight the legal frameworks that need to be revised to ensure indigenous food security in BC.

Joshua Yang has a BSc from the University of Colorado, Boulder. He is currently a UBC Masters of Engineering student studying environmental systems engineering. Joshua has experience in sustainability related research, engineering consultancy, and the public sector. He is interested in environmental engineering, sustainability, and education.

Joshua Ayer is a graduate of the Interdisciplinary Graduate Studies program at the UBC. His research is in the fields of political economy and philosophy with a focus on conceptualizing and pragmatizing a societal transition to a more sustainable economy. Joshua is passionate about political theory and studying how theory translates into real political momentum.

Katharine Baldwin is a Master's student in Geography at UBC. She studies natural history, the Fraser River, and feminist research methods. This summer she worked with the Centre for Sustainable Food Systems at UBC Farm to research Indigenous food sovereignty and traditional Indigenous foodlands in the Fraser Estuary.

Kephra Beckett is in her final year of her MSc in the Forest and Conservation Sciences Department at UBC. Her research has studied how deer overpopulation is harming bumblebee communities in Garry oak meadows on the Gulf Islands.

After completing her undergraduate degree in Food, Nutrition and Health (UBC, 2014) **Madelaine Parent** spent five years developing community programs at local non-profit organizations. Her interests in community engagement, equity and the built environment led her to pursue a Masters of Community and Regional Planning at UBC (2023).

Madison Lore is a PhD student in Planning and holds a Master's in Mathematics from RPI (NY, USA). Her research involves using large-scale data and machine learning techniques to understand an individual's potential to switch to sustainable transportation and the impacts of data driven solutions on underlying communities.

Maggy Spence (she/her) is a second-year Masters' student in the School of Community and Regional Planning. She is passionate about fostering equity and place-making within her community. Her research with the False Creek Friends Society focuses on the intersections between marine conservation and community engagement within the urban realm.

Margaryta Pustova is a MSc student at the Department of Geography. Her research focuses on how extreme weather events, such as heat waves, affect the public's preferences regarding climate change mitigation and adaptation actions. Margaryta is passionate about bridging the gap between climate science and climate action.

Mélanie Wittes (she/her) is a graduating Master of Community and Regional Planning student. As a settler whose work focuses on transportation, housing, social policy, and Indigenous planning, Mélanie is driven by equity and social justice in both processes and outcomes.

Michael Peterson has a background in civil engineering and is currently completing a Masters of Engineering Leadership in High Performance Buildings. Before attending UBC, Michael worked as a consultant in the building sciences industry. His work included building inspections, capital planning, and a wide range of construction restoration projects.

Natacha Monestel Mora is a Ph.D. candidate in Human Development Learning and Culture. She has experience as a consultant supporting international and local organizations promoting social justice in communities resisting unsustainable practices in Latin America. Her current inquiry focuses on understanding how refugee youth to Canada imagine socially just futures through documentary filmmaking techniques.

Orna Phelan is a Masters student at the Zoology department at UBC. She is interested in mosquitoes, specifically in understanding why some species are invasive and wide spread while others are restricted geographically. In addition to entomology, she is broadly interested in population ecology and dynamics of species and wildlife management and hopes to pursue a career in environmental consulting after my degree.

Pramila Khatri Chhetri Pramila Khatri Chhetri completed her PhD in Forestry this August. Her research was focused on forest carbon dynamics modelling. She will be working with a carbon offsetting company starting in October. She is thankful to have had the opportunity to learn about the importance of urban forestry this summer.

Rashi Chaturvedi is a Masters student at the School of Public Policy and Global Affairs and is specializing in resources, energy and sustainability. From a just energy transition to responsible agricultural practices, she hopes to learn how post-colonial countries can be empowered to navigate the challenges of equitable distribution of resources and sustainable governance.

Rudri Bhatt is a PhD student at the Institute for Resources, Environment and Sustainability. Her research is focused on decarbonization of the vehicle fleet in Canada by addressing barriers to adoption of electric vehicles. Rudri has a MSc in Resources, Environment and Sustainability from UBC and a BSc in Civil and Environmental Engineering from Technion-Israel Institute of Technology.

Sadia Ishaq is a passionate environmentalist and researcher. Her aims to find ways to make communities more resilient to climate-related disasters. Given the severity of climate change, she intends to implement nature-based solutions for flood mitigation and carbon sequestration. Aside from her research, she enjoys walking and practicing empathetic listening.

Sandun Wanniarachchi is a PhD candidate in Civil Engineering at UBC. His current research involves developing risk-based solutions to optimize hydrogen refueling infrastructure for freight transportation in Canada. Prior to joining UBC, Sandun worked as a Structural Design Engineer and his interests lie in sustainability, infrastructure planning, and policy development.

Sarah Garland is pursuing a Master of Architecture degree at UBC.

Shiva Zargar is an environmentalist, researcher, programmer, engineer and coach. She is a Ph.D. student working on sustainable bioeconomy. She has two Masters degrees in Biology and Biosystems Mechanics in the field of renewable energies. She has years of experience with life cycle assessment (LCA) methodology and has published several peer-reviewed articles in high-impact journals for LCA of different products.

Thais Ayres Rebello specializes in the Life Cycle Assessment of systems and has completed both a masters and a bachelors degree in environmental engineering. She worked closely with the City of Vancouver to quantify the CO2 emissions of parking spaces to develop parking regulations.

Trey Schiefelbein is a second-year student in the Master of Community and Regional Planning program. His interests are at the intersection of transportation planning and urban design, and how cities can rethink the functions of streets. His work examined the impact of street maintenance on the urban forest.

Tsubasa Bolt is currently pursuing a Master of Engineering Leadership in High Performance Buildings. He has 10 years of experience as a mechanical design engineer in the Canadian building design industry and specializes in heritage buildings, laboratory facilities, and institutional buildings in extreme cold climates.

Varun Gupta is currently pursuing a Masters of Engineering Leadership degree in Urban Systems Engineering. He has over 14 years of experience in policy integration, policy implementation, stakeholder management, project management, and decision-making on road-related infrastructure projects.

William Chen is in the second year of a Master of Applied Science in Chemical and Biological Engineering. His research investigates novel drinking water treatment methods, with particular focus on applications in remote and small communities. He is excited about the development of sustainable and resilient water systems to make clean water accessible to everyone.

Yiming Zhang recently completed a Masters of Land and Water Systems at UBC. He is interested in ecological restoration, watershed management and environmental sustainability. As a Sustainability Scholar, he worked with Living Lakes Canada and the Upper Nicola Band to interweave Indigenous Knowledge and Values into the current lake protocol.

Moderators & Speakers

Ali Nayeri is a project manager with the City of Vancouver's Engineering Strategy & Standards branch. Ali works primarily on strategies for sustainable service delivery through asset management and capital planning. Prior to joining the City's Engineering department, Ali worked at the Vancouver Park Board where he was part of various teams working on transformation of shorelines, parks and open spaces to respond to challenges of inequity, reconciliation and climate change.

Amaiya Khardenavis is an analyst focusing on EV charging infrastructure for global markets at Wood Mackenzie in their Grid Edge practice. He brings a rigorous approach to research with a focus on clean mobility, modelling, and analytics. A former Sustainability Scholar, Amaiya is responsible for conducting analyses on the global electric vehicle charging market. Amaiya is passionate about leveraging data to drive decision-making the world's transition to sustainable solutions.

Angela Danyluk is the Senior Environmental Specialist at the City of Vancouver. As the senior biologist for the City, Angela works across disciplines on projects and programs related to ecology, adaptation, sea level rise, and resilience. She is a Registered Professional Biologist and has been working in sustainability and environmental planning for fifteen years. Angela lives in Vancouver, BC where she enjoys hiking, art & culture and the local craft beer scene.

Aubree McAtee based in the Planetary Healthcare Lab at UBC, Aubrey is the Western Canada Regional Manager for CASCADES—a multi-year capacity building initiative to address healthcare's contribution to the climate crisis, led in collaboration by four different institutions across Canada. She is currently focused on building capacity in the health care sector to promote and deliver sustainable health systems and to support innovations in service delivery and system design projects across Western Canada.

Cait Murphy is the Regional and International Engagement Specialist at the Sustainability Hub. A settler of Irish and Dutch descent, she previously led BC-based programs on climate change adaptation and resilience and worked on a small-scale educational organic farm.

Carly Johansson is a Climate Leadership Specialist and electric mobility expert at Community Energy Association. She works on building capacity in both local government staff and locally elected officials to help them take steps towards creating low-carbon communities.

Cynthia Fell is the Resource Management Coordinator for the T̓silhqot'ín National Government. Cynthia has 15+ years of experience in aquatic and terrestrial ecosystem management in BC. She has worked in forest and range management, fish and wildlife management, watershed management, fire ecology and post-wildfire rehabilitation.

David Blair is a Project Engineer at Metro Vancouver in the Collaborative Innovations Group; part of Policy, Planning, and Analysis in Liquid Waste Services. David has been involved in the development of environmental outreach and education platforms, remote water quality monitoring, and rural wastewater treatment projects. David's passion for protecting the environment and wastewater treatment comes from recreating in Howe Sound and Ontario lakes.

Gaëtane Carignan is a Resilience Specialist at Community Energy Association. She is currently focussed on building capacity in Energy Step Code and high-performance new construction and retrofits in cold climates, rural areas and Indigenous communities. Her work is informed by a background in environmental and agricultural sciences, community engagement and systems design that intersects themes of community resiliency and scientific inquiry.

Glen Cheetham works for the City of Kamloops in the role of Climate and Sustainability Manager leading a team focused on advancing the City's climate action goals, from measuring and reporting on corporate and community greenhouse gas emissions, to developing programs and policies to enable energy and emission reductions, to engaging the community on ways they can foster sustainable behaviour at home, work and play. Most recently, Glen and his team led the development of the Community Climate

Action Plan, which was adopted by City Council in June, 2021, and aims to guide, motivate, and inspire our community to work together to reduce fossil fuel use and transition to a low-carbon future.

John Calimente is a transportation policy analyst for the City of Vancouver and is currently completing an MSc in Energy Policy. John has developed, planned, and led the design and construction of major active transportation and streetscape revitalization projects in both local government and private industry. A dedicated transportation enthusiast, his proudest moment was volunteering as a streetcar driver during the 2010 Olympics.

Karen Taylor manages the Sustainability Scholars Program, a paid internship program for UBC graduate students to work on applied sustainability-related research projects for organizations throughout the lower mainland, Vancouver Island, and the B.C. interior. A UBC graduate with a BA in English and an MA in Children's Literature, Karen has an extensive and varied background in program management, project management, marketing, academic writing, academic research, and editing.

Katherine Nichol is a Senior Consultant with Kore Global, a consulting firm specialising in gender equality and social inclusion research, strategy, monitoring, evaluation and learning, and capacity strengthening. Katherine has 15 years of experience working at the intersection of gender equality, international development and humanitarian response. She has built her career advising INGOs and the UN system to develop evidence-based strategies and programmes to advance gender equality and social inclusion across Africa, Asia and Eastern Europe.

Linda Nowlan leads the UBC Sustainability Hub as the Senior Director. She has over twenty-five years of experience in sustainability as a public interest environmental lawyer and NGO leader. She is a member of the Board of Trustees of the Canadian Museum of Nature and the IUCN Commission on Environmental Law, and previously served on Vancouver's Greenest City Action Team and the Boards of the Fraser Basin Council and Smart Growth BC. Her advocacy contributed to many legal reforms, and her publications cover topics ranging from groundwater protection to marine spatial planning and extinction art.

Marjo Vierros is the director of Coastal Policy and Humanities Research—a Vancouver-based consultancy undertaking interdisciplinary research on ocean issues. In this role, she works with United Nations agencies on topics related to ocean protection, management, and sustainable development. She is also a Senior Fellow with the Global Ocean Forum. Previously she has led the Global Marine Governance Project at the United Nations University and coordinated marine issues for the Secretariat of the Convention on Biological Diversity. She has worked in the Caribbean, Bermuda, and the Pacific Islands on topics that include marine ecology and policy, biocultural diversity, and integration of traditional knowledge and science.

Mehmud Iqbal A chemical engineer with a decade of experience in the upstream oil and gas and utility industry. Highly passionate about energy efficiency and clean energy technologies to reduce GHG emissions and avert the consequences of climate change. A former Sustainability Scholar, Mehmud is currently working at FortisBC to decarbonize BC homes and businesses by driving forward with innovative solutions and new energy-efficient technologies.

Peter Sun is a former Sustainability Scholar and an Economic Transformation Analyst at the Vancouver Economic Commission. He and his team aim to support the green economy, decarbonization and resilience work in Vancouver's built environment. Specifically, he is currently working to implement a green buildings technology attraction strategy to build capacity and support electrification and decarbonization efforts in Vancouver and beyond.

You can find copies of all current and past UBC Sustainability Scholars projects online:

<http://sustain.ubc.ca/scholarslibrary>