ONE HEALTH
G7 RESEARCH SUMMIT

NOV. 21-23, 2022 | LAKE LOUISE, AB

SOMMET DE LA RECHERCHE DU G7
UNE SEULE SANTÉ

Participants

Gopal Achari | Schulich School of Engineering, University of Calgary

Dr. Gopal Achari, a Fellow of the Canadian Society for Civil Engineering, is a Professor of Environmental Engineering and the Associate Dean (Research and Graduate Studies) at the Schulich School of Engineering in the University of Calgary. Dr. Achari is internationally renowned for his research on water and wastewater treatment and soil remediation. His research on advanced oxidative methods and photochemical treatment using low energy LEDs have received wide acclaim. Having published over 220 papers and supervised over 50 PhD and master students, Dr. Achari has received numerous awards both for excellence in research and in teaching. For his innovation on PCB treatment technology, Dr. Achari received the APEGA Environment and Sustainability Award as well as an AsTech Honoree. Dr. Achari currently serves as the President-Elect of the Canadian Society for Civil Engineering (CSCE). In the recent past, he was the VP and Senior VP of CSCE as well as served as the Chair of CSCE's Environmental Engineering Division.

Jason Acker | Associate Vice-President (Research Integrity Support), University of Alberta

Dr. Jason Acker is the Associate Vice-President (Research Integrity Support) where he has leadership responsibilities for building, implementing and managing a framework that supports programs and services encompassing all research integrity areas, including compliance, ethics certification, clinical trials monitoring, human and animal ethics, safeguarding research, and legal requirements related to research at the University of Alberta.

Alejandro Adem | President, Natural Sciences and Engineering Research Council of Canada

Professor Alejandro Adem was appointed President of NSERC in October 2019. As a highly accomplished researcher in the field of mathematics and a faculty member at the University of British Columbia, Professor Adem has significant leadership experience in the Canadian research and innovation ecosystem. Before joining NSERC, he was CEO and Scientific Director of Mitacs (2015–19) where he oversaw a significant expansion of its domestic and international internship programs, as well as launching the Mitacs Canadian Science Policy Fellowships, an Indigenous engagement initiative and an innovative entrepreneurship program. Professor Adem is currently the Chair of the Canada Research Coordinating Committee and Vice-Chair of the Governing Board of the Global Research Council. Over his career he has served on a variety of scientific, editorial and governance boards for the worldwide mathematical sciences community, and is a member of the International Mathematical Union's Committee for Women in Mathematics. He is a Fellow of the Royal Society of Canada, a Fellow of the American Mathematical Society, a Fellow of the Canadian Mathematical Society, and a Corresponding Member of the Mexican Academy of Sciences.

Aisha Ahmad | Department of Political Science, University of Toronto; Director, Islam and Global Affairs Initiative, Munk School of Global Affairs and Public Policy

Aisha Ahmad is an Associate Professor of Political Science at the University of Toronto and a Senior Fellow at Massey College. She is a multiple award-winning International Security expert and has advised allied governments and militaries on global crises.

Jesus G. Alvelo Maurosa | National Science Foundation; NASEM New Voices

Jesus G. Alvelo Maurosa is a former Engineer/ Science Analyst for the Division of Civil, Mechanical and Manufacturing Innovation in the Directorate for Engineering at the National Science Foundation where he provided data and scientific analysis across the division. Jesus is also a member of the NASEM New Voices program.

John Amuasi | Head of the Global Health Department, Kwame Nkrumah University of Science and Technology

Dr. John Amuasi lectures at the Kwame Nkrumah University of Science and Technology, where he heads the Global Health Department. Dr. Amuasi is also Group Leader of the Global One Health Research Group at the Bernhard Nocht Institute of Tropical Medicine in Hamburg, Germany and at KCCR in Ghana. Dr. Amuasi's research currently involves both clinical and field epidemiologic studies on neglected tropical diseases and antimicrobial resistance using a One Health approach. Dr. Amuasi also co-chairs the Lancet One Health Commission and is the PI for some studies on COVID-19 in Ghana, including drug and vaccine clinical trials.

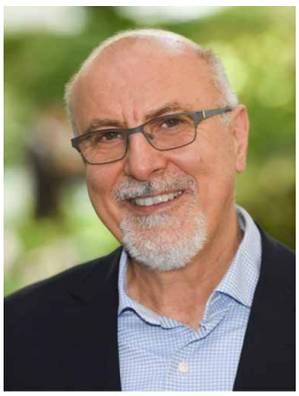
Rob Annan | President and CEO, Genome Canada

Rob Annan has more than a decade of success leading research and innovation organizations. As President and CEO of Genome Canada, he combines a background in genomics research with deep knowledge of science and innovation policy and a proven track record in corporate strategy. Rob is committed to translating ideas into impact. A strong believer that science and innovation—when equitably applied—can make life better, he works with researchers, policy leaders and industry across Canada and internationally to help realize the economic, environmental, and social benefits of genomics. Rob has been involved in Canadian science policy in numerous capacities, including through executive leadership at Mitacs where he served as Chief Research Officer. Rob has also served as a fellow of the Public Policy Forum as well as a Director of Let's Talk Science.

Gabriel Antwi-Boasiako | PhD Researcher, University of Saskatchewan

Gabriel Antwi-Boasiako is a PhD researcher at the University of Saskatchewan. His current research investigates the gaps in policy and decision-making processes of the social, political, and health context of human-wildlife diseases (zoonotic) transmission. Specifically, he is interested in past, current, and (potential) future pandemics.

Soheil Asgarpour | President, Canadian Academy of Engineering (CAE)



Soheil Asgarpour is currently serving the Canadian Academy of Engineering (CAE) as President, the Petroleum Technology Alliance Canada (PTAC) as President & CEO and the Canadian Council of Academies (CCA) as the Chair of Governance and Nomination Committee. Soheil earned his Ph.D. in Mechanical Engineering from Rice University.

Paul Atkins | Chief Executive, Royal Society Te Apārangi

Paul Atkins is Chief Executive of the Royal Society Te Apārangi. Previous roles have included Chief Executive of Zealandia – a world-first fenced urban eco-sanctuary in Wellington, and the National Energy Research Institute in New Zealand. Paul has chaired the Boards of the MacDiarmid Institute for Advanced Materials and Nanotechnology, the Hillary Institute of International Leadership, Boutiq Science Ltd, and Mevo Ltd, and was a director of the biomedical device company Ferronova Pty Ltd. He was also inaugural Chair of the New Zealand Smart Grid Forum and Vice-chair of the IEA's Demand-side Implementing Agreement. He is a Chartered Physicist and Chartered Scientist, a Member of the Institute of Physics and Fellow of the Chartered Management Institute.

Janice Bailey | Scientific Director, Fonds de recherche du Québec

Professor Janice Bailey is the Scientific Director of the Fonds de recherche du Québec - Nature et Technologies, which develops and promotes research in natural sciences, engineering and mathematics. Prior, she was a professor at Université Laval. Over her career, she has served on numerous government advisory committees, the governing boards of research organisations, and has been recognized for her scientific contributions and leadership.

Arinjay Banerjee | Vaccine and Infectious Disease Organization, University of Saskatchewan

Dr. Arinjay Banerjee (PhD) is the Principal Investigator of the Laboratory of Zoonotic Viruses and Comparative Immunology at the Vaccine and Infectious Disease Organization, University of Saskatchewan, and adjunct faculty at the Universities of Saskatchewan, Waterloo, British Columbia, and Toronto. Dr. Banerjee is the co-lead of One Health at the University of Saskatchewan. Research within Dr. Banerjee's laboratory focuses on three main themes that are inspired by the One Health ideology, (1) virus-host interactions in wildlife reservoir species, such as bats, (2) virus-host interactions in spillover species, such as humans, and (3) viral vaccine development. Dr. Banerjee's laboratory is a member of Canada's Coronavirus Variants Rapid Response Network (CoVaRR-Net), and as part of this network, his laboratory investigates emerging SARS-CoV-2 variants.

Herman Barkema | Faculty of Veterinary Medicine, University of Calgary

Herman Barkema is a NSERC Industrial Research Chair in Infectious Diseases of Dairy Cattle at the uCalgary Faculty of Veterinary Medicine, jointly appointed at the Cumming School of Medicine. He leads the AMR – One Health Consortium and One Health at uCalgary. Dr. Barkema is a fellow of the CAHS.

Malek Batal | Faculty of Medicine, Université de Montréal

Malek Batal is Professor at the Université de Montréal's Faculty of Medicine and the Director of the WHO-Collaborating Centre on Nutrition Changes and Development (TRANSNUT). Malek holds the Canada Research Chair in Nutrition and Health Inequalities and is a Fellow of the Royal Society of Canada and of the Canadian Academy of Health Sciences. He conducts participatory research studying the links between environment and food system health and population health, in an effort to redress health inequities.

Julia Baum | Ocean Ecology and Global Change, University of Victoria

Julia Baum is a Professor of Ocean Ecology and Global Change at the University of Victoria. An expert in coral reef ecology, marine fisheries and climate change, Baum's research group works to advance understanding of ocean climate change impacts, and inform and catalyze climate solutions. Baum is a vocal champion of equity, diversity and inclusivity, and is also committed to communicating science and the need for climate solutions to policy-makers and the public.

Aimy Bazylak | Department of Mechanical & Industrial Engineering, University of Toronto

Aimy Bazylak is the Canada Research Chair in Clean Energy and Professor in the Department of Mechanical and Industrial Engineering at the U of T. Her research is focused on advancing fuel cells, water electrolyzers, and carbon dioxide electrolyzers clean power and energy storage in the absence of greenhouse gas emissions. She uses modelling and real-time imaging to design new materials for high efficiency and high-performance electrochemical energy conversion.

Fikret Berkes | Professor Emeritus, University of Manitoba

Dr. Fikret Berkes is Distinguished Professor Emeritus at the University of Manitoba, and former Tier I Canada Research Chair in Community-based Resource Management. His work combines social and ecological perspectives for the study of relations between societies and their environments. Berkes is interested in commons, traditional ecological knowledge, and social-ecological resilience.

Kerry Black | Department of Civil Engineering, University of Calgary

Kerry Black is an Assistant Professor and Canada Research Chair in the Department of Civil Engineering, at the University of Calgary working in sustainable water and wastewater management in Indigenous communities and sustainable infrastructure for healthy and resilient communities. She worked extensively in the academic, public, private and non-profit sectors, employed in technical, scientific, policy, and management roles. The majority of her experience has included working with First Nations on urgent and pressing issues across Canada.

Maryse Bouchard | Environmental Health, Université de Montréal

Dr. Maryse Bouchard is a professor of environmental health at Université de Montréal. She trained in biology, environmental sciences, epidemiology, and public health. She holds the Canada Research Chair on Environmental Contaminants and Populations' Health, aimed at studying and preventing risks arising from multiple exposure to contaminants in food, water, air.

Pietro Cappuccinelli, Emeritus Professor at the University of Sassari, Sardinia, Italy

Pietro Cappuccinelli, Emeritus Professor at the University of Sassari, Sardinia, Italy is a Medical Microbiologist. His main activity in the last 30 years has been the organization of scientific cooperation programs in low and middle income countries, mainly in Africa and South East Asia, aimed at infrastructure development, technology transfer, post-graduate training and promotion of research projects for infectious diseases control.

Hélène Carabin | Faculty of Veterinary Medicine, School of Public Health, Université de Montréal

Dr. Hélène Carabin is a Professor in the Department of Pathology and Microbiology at the Faculty of Veterinary Medicine and in the Department of Social and Preventive Medicine at the School of Public Health of the Université de Montréal. She holds the Tier 1 Canada Research Chair in Epidemiology and One Health. Her research programme focuses on the implementation of large-scale studies and intervention to better understand risk factors and burden of infectious diseases and to evaluate control programmes, with an emphasis on diseases affecting the most vulnerable populations, and zoonotic diseases, always adopting a One Health approach. She co-leads two pan-Canadian networks, one on One Health governance of infectious diseases and antimicrobial resistance (Global 1HN) and the other on modeling emerging infections (OMNI-RÉUNIS)

while taking into account the One Health approach. She leads the Research group on the epidemiology of zoonoses and public health (GREZOSP), leads the "Global One Health" Pillar of the Centre de Recherche en Santé Publique (CReSP) and is a Commissioner on the One Health Lancet Commission.

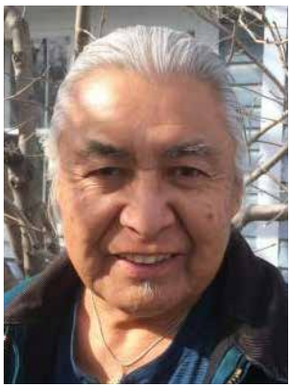
Jamie Cidro | Associate Vice-President of Research and Innovation, University of Winnipeg

Dr. Jaime Cidro is the Associate Vice-President of Research and Innovation, Professor in the Department of Anthropology, and Director of the Master's in Development Practice Program at the University of Winnipeg. She is also a CIHR-funded Canada Research Chair in Health and Culture and the Co-Director of the Kishaadigeh Collaborative Research Centre housed at UW.

Jennifer Copeland | Associate Dean, Faculty of Arts & Science, University of Lethbridge

Dr. Jennifer Copeland is a Professor of Kinesiology and an Associate Dean at the University of Lethbridge. She studies the impact of physical activity and sedentary behaviour on health and is interested in the broad public health benefits of exercise, including how active living can contribute to sustainable development goals.

Joe Copper Jack | Senior Policy and Planning Advisor, Yukon Land Use Planning Council



Copper Jack was raised in a traditional indigenous way of life in the mountains of the Yukon. He had many elder mentors from early childhood throughout most of his adult life. He spent most of his life fighting for Aboriginal rights for Indigenous peoples, and the protection of land and waters in Canada's northwest. As the creator of a collaborative planning and mediation knowledge tool (Land and Peoples Relationship Model) that is based on indigenous long-ago knowledge, Copper has been proving how land planning could successfully happen between Indigenous and Western knowledge holders. Only two years old, the Model is actively facilitating planning projects in Yukon, BC, NWT and Alaska.

Jay Cross | President, Canadian Academy of Health Sciences

James ("Jay") Cross is veterinarian and scientist recognized internationally in the areas of reproductive and developmental genetics. He is a Fellow of the Royal Society of Canada and the Canadian Academy of Health Sciences. Jay is currently President of the Canadian Academy of Health Sciences and Chief Instigation Officer of the McEachran Institute, a think tank focused on protecting the shared health of animals, people and ecosystems.

Géraldine Dantelle | Scientific and Higher Education Attachée, French Embassy in Canada

Dr. Géraldine Dantelle is the scientific and higher education attachée for the French Embassy in Canada, based in Vancouver, in charge of the cooperation programs between France and Western Canada (BC, AB, SK, YK, NWT). She holds a PhD in Materials Science from the Sorbonne University (Paris) and has worked in academic research for over 15 years, at the University of Oxford and at the French National Center for Scientific Research (CNRS) in Paris and Grenoble.

Hélène de Rode | Attorney at Law, Liège, Belgium

Mrs. Hélène de Rode is a Belgian lawyer. She is working in Liège (Belgium) as attorney at law. She worked also as professor of law at the university of Louvain-la-neuve then at the university of Mons. She published various books and articles about insurance law. She started the European Academy of Sciences in 2003 (the headquarters of this Academy are in Brussels).

Cate Dewey | Epidemiology and Veterinary Medicine, Ontario Veterinary College, University of Guelph

Cate Dewey, DVM, MSc, PhD is a Professor of epidemiology and veterinary medicine (large animals) at the Ontario Veterinary College. Her One Health research focuses on zoonotic disease prevention and vulnerable populations. She is Director of the One Health Institute and Associate Vice-President (Academic), at the University of Guelph.

David Evans | Department of Medical Microbiology and Immunology, University of Alberta

Dr. David Evans is a virologist with diverse interests in poxvirus biology as well as a former research administrator. His efforts have helped to build and equip new research facilities supporting immunology and infectious disease research at the University of Alberta. This includes one of Canada's busiest academic BSL3 laboratories which has proven invaluable for conducting SARS-CoV-2 and monkeypox virus research. Dr. Evans' career has focussed on the study of poxviruses with special expertise in virus recombination, anti-poxviral drugs, and replication. Dr. Evans has also demonstrated a longstanding interest in research translation. His study of the enzymes catalyzing vaccinia virus strand joining reactions led to the invention of a recombineering technology that underpins InFusion® cloning kits, and more recently his research has focussed on developing oncolytic viruses for treating cancer as well as methods for assembling synthetic and recombinant Orthopoxviruses.

William Ghali | Vice-President (Research), University of Calgary

Dr. William Ghali was appointed Vice-President (Research) effective March 1, 2020. Dr. Ghali is a world-class researcher and Professor in the Departments of Medicine and Community Health Sciences at the University of Calgary. Dr. Ghali is also a physician, specializing in General Internal Medicine (MD (1990) - University of Calgary, FRCP(C) (1994)) - Queen's University, Kingston, Ontario), and completed methodological training in health services research and epidemiology at the Boston University School of Public Health (MPH, 1995). Dr. Ghali was the scientific director of the O'Brien Institute for Public Health at the University of Calgary.

Darren Gilmour | Executive Director, Royal Society of Canada

Darren Gilmour is the Executive Director of the Royal Society of Canada (RSC). Born and raised in New Brunswick, Darren did his graduate studies in Nairobi, Kenya. During the time of Darren's leadership, the RSC has acquired Walter House in downtown Ottawa, created the College of New Scholars, and organized a pandemic response with 700 Canadians resulting in 25 peer-reviewed reports and nearly 200 informed perspectives highlighting the role of independent expertise in building a better future.

Andrew Gonzalez | Liber Ero Chair in Biodiversity Conservation, McGill University

Andrew Gonzalez is Professor and Liber Ero Chair in Biodiversity Conservation, McGill University. His research focuses on the causes and consequences of biodiversity change and ecosystem sustainability. He is the founding Director of the Quebec Centre for Biodiversity Science and co-Chair of the international network the Group on Earth Observations Biodiversity Observation Network (GEO BON). He is also the cofounder of Habitat a company offering science advice and design principles for nature-based solutions.

Michael Hart | Vice-Provost & Associate Vice President, Research (Indigenous Engagement), University of Calgary

Dr. Michael Hart is the vice-provost (Indigenous engagement). He was appointed for a five-year term (renewable), effective June 1, 2018. He serves as a key champion and advocate for the Indigenous Strategy, ii' taa'poh'to'p, at the University of Calgary, which was formally launched on Nov. 16, 2017. He is a strong and visible role model for members of the university community on Indigenous engagement and being a good relative.

Bonnie Henry | Provincial Health Officer, British Columbia

Dr. Bonnie Henry was appointed as British Columbia's Provincial Health Officer in 2018. As BC's most senior public health official, Dr. Henry is responsible for monitoring the health of all British Columbians and undertaking measures for disease prevention and control and health protection. Most recently Dr. Henry has led the province's response on the COVID-19 pandemic and drug overdose emergency.

Sean Hillier | Associate Director, Centre for Indigenous Knowledges and Languages, York University

Dr. Sean Hillier is a queer Mi'kmaw scholar and a registered member of the Qalipu First Nation. He is an associate professor and York Research Chair in Indigenous Health Policy & One Health the Faculty of Health of York University. He is also the Associate Director of the Centre for Indigenous Knowledges and Languages.

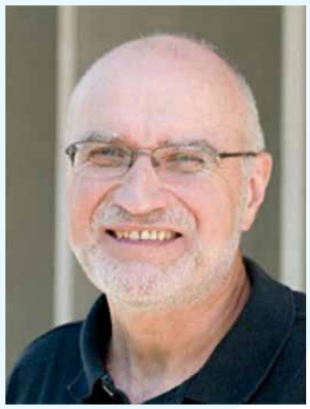
Deena Hinshaw | Faculty of Medicine & Dentistry, University of Alberta

Dr. Deena Hinshaw is a descendant of Northern European settlers who came to central Alberta in the early 1900s. She studied medicine at the University of Alberta, including family medicine and public health. She has worked in local and provincial public health in Alberta, most recently as the Chief Medical Officer of Health for the province.

Magali Houde | Scientist, Environment and Climate Change Canada and Adjunct Professor, Université du Québec à Montréal and McGill University

Dr. Magali Houde is a scientist with Environment and Climate Change Canada and adjunct professor at Université du Québec à Montréal and McGill University. Her research focuses on understanding the fate and effects of contaminants in aquatic environments. Her contaminant work across the Canadian Arctic is done in collaboration with Indigenous Peoples and integrates climate factors.

Norm Hüner | Emeritus Professor, Department of Biology, Western University



Dr. Norm Hüner is Emeritus Professor in the Department of Biology, Western University. His research focusses on elucidation of the molecular mechanisms that underlie the regulation of biological energy flow during photosynthetic acclimation and adaptation to extreme terrestrial and aquatic environments in plants and photosynthetic microbes.

Wataru Iwasaki | Professor, Computational Biology, University of Tokyo, and Chair, Young Academy of Japan

Dr. Wataru Iwasaki is a Professor of Computational Biology at the University of Tokyo and the Chair of the Young Academy of Japan. He received Ph.D. from the University of Tokyo (2009) and served as a member of the Global Young Academy (2017-2022) and the President of Japanese Society for Bioinformatics (2019-2021).

Carole Jabet | Scientific Director, Fonds de recherche Québec santé

Carole Jabet is Scientific Director of the Fonds de Recherche Québec Santé, where she works to support excellence in health research, recognized worldwide and which contributes to the well-being of the population. She is an engineer from the École Centrale de Lyon and a PhD in molecular biophysics from the École Centrale de Paris, a postdoctoral fellow in the Biophysics department of Johns Hopkins School of Medicine. She participated in the establishment of research funding programs and structuring projects and in the establishment of partnerships with high benefit with private and public actors in the health sector.

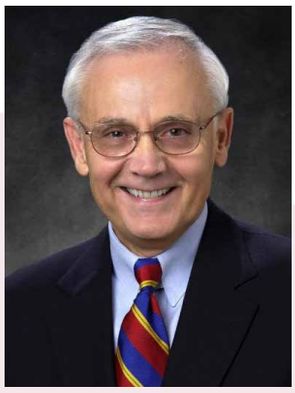
Claire Jardine | Regional Director, Canadian Wildlife Health Cooperative, University of Guelph

Dr. Claire Jardine is an Associate Professor in the Department of Pathobiology and the regional director of the Canadian Wildlife Health Cooperative for Ontario/Nunavut at the University of Guelph. Dr. Jardine's research focuses on wildlife health and disease, with a particular focus on investigating the ecology of zoonotic pathogens in wildlife populations.

Emily Jenkins | Veterinary Microbiology, University of Saskatchewan

Dr. Emily Jenkins (PhD, DVM, BSc), is Professor of Veterinary Microbiology, University of Saskatchewan (USask). Her research takes a One Health approach to diseases that transmit among animals and people via food, water, vectors, and the environment. She co-leads the Canadian Arctic One Health Network and the USask One Health signature area, and is Canadian representative to the Terrestrial Working Group of the International Arctic Science Committee.

Lonnie King | Dean Emeritus & Academy Professor, College of Veterinary Medicine, Ohio State University



Lonnie King, DVM, MS, MPA, ACVPM, is dean emeritus of the College of Veterinary Medicine and Academy Professor at The Ohio State University. He has served as dean for 3 colleges over 17 years. Before his academic career, he was the first Director of the National Center for Zoonotic, Vector-Borne, and Enteric Diseases at the Centers for Disease Control and Prevention. Dr. King also served as the administrator for the Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture and was the country's chief veterinary officer for five years. His expertise is in One Health, global health, emerging zoonoses and antimicrobial resistance.

Harpreet Kochhar | President, Public Health Agency of Canada

Dr. Harpreet S. Kochhar was appointed President of the Public Health Agency of Canada on October 12, 2021. Since re-joining the Health portfolio in 2020, when he was appointed to the role of Associate Deputy Minister of Health, Dr. Kochhar has become an integral player in Canada's COVID-19 response. Before joining the Department, Dr. Kochhar served as Assistant Deputy Minister of the Operations Sector for Immigration, Refugee and Citizenship Canada (IRCC) where he led the delivery of the Immigration, Citizenship and

Passport programs across Canada and at missions and offices abroad. He also was responsible for the implementation of key strategic projects for IRCC, including the Passport Modernization Initiative, Predictive Analytics, and the transformation of IRCC's operational delivery model.

Jaspinder Komal | Assistant Deputy Minister, Defence Research and Development Canada, Department of National Defence

Dr. Jaspinder Komal graduated from the Université de Montréal in Saint-Hyacinthe, Quebec, with a degree in Veterinary Medicine and a post-graduate degree in Veterinary Microbiology. Dr. Komal joined the Public Service in 1994 as a Veterinary Inspector. He moved to Ottawa in 2000, where he has held various positions across different departments. Currently, Dr. Komal is the Assistant Deputy Minister, Defence Research and Development Canada, Department of National Defence.

Susan Kutz | Faculty of Veterinary Medicine, University of Calgary

Susan Kutz is a Canada Research Chair in Arctic One Health at the University of Calgary Faculty of Veterinary Medicine. She works with Indigenous communities to bring local, traditional and scientific knowledge together to understand the impacts of climate change on wildlife health and sustainability in the Arctic.

Jennifer Leason | Indigenous Maternal Child Wellness, University of Calgary

Dr. Jennifer Leason, PhD (she/he/kwé) is an off-reserve member of Pine Creek Indian Band, Manitoba and the proud mother of Lucas and Lucy. Dr. Leason is a Canadian Institute of Health Research (CIHR), Canada Research Chair, Tier II, Indigenous Maternal Child Wellness and an Associate Professor at the University of Calgary.

Gary Libben | Secretary, Royal Society of Canada

Gary Libben, FRSC, is Professor of Applied Linguistics at Brock University. He is a psycholinguist and neurolinguist whose research brings together theoretical and experimental approaches to language processing. Professor Libben has advanced the understanding of how words are represented in the mind and brain by developing new theoretical models of language in the mind and new laboratory methods for its investigation. His research has spanned over a dozen languages and he has investigated language processing among monolinguals and bilinguals across the lifespan and among persons who have experienced damage to the brain. Professor Libben's work has revealed how psycholinguistic research can advance the understanding of how the human mind creates meaning.

Leslie Mabon | School of Engineering and Innovation, the Open University

Dr. Leslie Mabon is a Lecturer in Environmental Systems at the Open University in the UK. Leslie is an environmental social scientist whose research focuses on resilience to environmental change at the local level, with a particular interest in coastal communities. He is also a member of the Young Academy of Scotland, and a Future Earth Coasts Fellow.

Hussam Mahmoud | George T. Abell Professor, Infrastructure, Colorado State University

Hussam Mahmoud is the George T. Abell professor in infrastructure at Colorado State University. His research focuses on coupling system of systems and network approaches with socio-physical models to predict the impact of single and multiple extreme events on the resilience of critical infrastructure including health care system. Hussam is a member and a co-chair of the NASEM New Voices program.

Mike Mahon | President & Vice Chancellor, University of Lethbridge

Dr. Michael J. (Mike) Mahon was installed as the President and Vice-Chancellor of the University of Lethbridge in 2010 and after serving two consecutive terms has been reappointed for a third term beginning July 1, 2020. His Blackfoot name is Iipisowaahsiiyi (Morning Star). Dr. Mahon holds a PhD in Education from the University of North Carolina at Chapel Hill. His current research is in the field of disability studies and sport for development.

linda manyguns | associate vice-president, Indigenization and decolonization, University of Calgary

linda manyguns is a Blackfoot woman born on the Tsutina Nation, now registered at Siksika. She is the grandmother to five children. She grew up in Europe as an airforce brat. In early years she worked as a high steel construction worker, a red seal chef, and was a union leader for CUPE. She has 4 degrees: (BA in sociology; MA in sociology; LLB from the University of Ottawa and a PhD in Indigenous Philosophy from Trent University. At law school, fellow students nominated her for the

Karim Green Spon Award for outstanding achievement. She worked at the Indian lands claims commission in Ottawa. Was a professor for over ten years and she is now the associate vice-president of Indigenization and decolonization at Mount Royal University.

Rodrigo Martins | Materials for Energy, Microelectronics and Nanotechnologies, FCT-NOVA; President, European Academy of Sciences

Rodrigo Martins received an Honours degree in Electronics Engineering, Telecommunications and applied Electronics by U. Luanda, Angola/ PT in 1974. In 1977 he received an MSc degree in Semiconductor Materials from the University of Dundee, Scotland. In 1982 he received a Ph.D. in Energy conversion and Semiconductors, by New University of Lisbon, Portugal. In 1988 he received the Habilitation in Semiconductor Materials and Microelectronics, by New University of Lisbon, Portugal. Full Professor at FCT-NOVA since 2002 in the area of Materials Engineering, his specialty is Materials for Energy, Microelectronics and Nanotechnologies.

Ian Mauro | Executive Director, Pacific Institute for Climate Solutions, University of Victoria

Dr. Ian Mauro is the Executive Director of the Pacific Institute for Climate Solutions, University of Victoria. His climate change research and filmmaking links environmental science, Indigenous and local knowledges, and efforts to transition society from risk to resilience. He led the team that developed the Climate Atlas of Canada.

Jonna Mazet | Vice Provost, Grand Challenges, University of California, Davis

Jonna Mazet is the Vice Provost – Grand Challenges at the University of California, Davis. She is Chancellor's Leadership Distinguished Professor of Epidemiology and Disease Ecology and founded the One Health Institute in the UC Davis School of Veterinary Medicine, where she focused on global health problem solving, especially for emerging infectious disease and conservation challenges. Dr. Mazet is active in international One Health education, service, and research programs, most notably in relation to disease transmission among wildlife, domestic animals, and people and the ecological drivers of novel disease dynamics. Over the past decade, she was the Global Director of a greater than $200 million viral emergence early warning project, named PREDICT, that was developed with the US Agency for International Development's (USAID) Emerging Pandemic Threats Program. She was elected to the National Academy of Medicine in 2013 in recognition of her successful and innovative approach to emerging environmental and global health threats and serves on the National Academies of Science, Engineering, and Medicine's Forum on Microbial Threats and the Academies' One Health Action Collaborative. She was appointed to the National Academies Standing Committee on Emerging Infectious Diseases and 21st Century Health Threats, which was created to assist the federal government with critical science and policy issues related to the COVID-19 crisis and other emerging health threats.

Ed McCauley | President, University of Calgary

Dr. Edward McCauley began his term as the ninth president and vice-chancellor of the University of Calgary on January 1, 2019. Prior to this leadership position, McCauley had served over three decades in various roles at the University of Calgary: as a professor, Tier 1 Canada Research Chair in Population Ecology and vice-president (research). His academic record also includes two separate stints at the University of California, Santa Barbara: as a postdoctoral fellow, as the Director of the National Center for Ecological Analysis and Synthesis, and as a professor in the Department of Ecology, Evolution and Marine Biology.

Deborah McGregor | Osgood Hall Law School, York University

Deborah McGregor, Anishinabe, Associate Professor and Canada Research Chair: Indigenous Environmental Justice. Osgoode Hall Law School and Faculty of Environmental and Urban Change, York University. Professor McGregor's research has focused on Indigenous knowledge systems and their various applications in diverse contexts including environmental and water governance, environmental justice, health and environment, climate change and Indigenous legal traditions. Professor McGregor remains actively involved in a variety of Indigenous communities, serving as an advisor and continuing to engage in community-based research and initiatives. Professor McGregor has been at the forefront of Indigenous environmental justice and Indigenous research theory and practice. Her work has been shared through the IEJ project website https://iejproject.info.yorku.ca/ and UKI International Collaboration on Indigenous research https://www.indigenous.ncrm.ac.uk/.

Dena McMartin | Vice-President Research, University of Lethbridge

Dr. Dena McMartin is Vice-President Research at the University of Lethbridge. Dr. McMartin's research focuses on rural, agricultural and industrial water resources management and treatment as well as impacts of freshwater climate extremes on communities and economies. Dena currently serves as one of Canada's three members on the International Joint Commission water treaty and apportionment study of the St. Mary and Milk Rivers.

Paul Merchant | Latin American Film and Visual Culture, University of Bristol

Paul Merchant is Senior Lecturer in Latin American Film and Visual Culture at the University of Bristol, where he also co-directs the Centre for Environmental Humanities. His research, which has received funding from the British Academy and UK Research and Innovation, explores cultural responses to the ocean in Chile and Peru.

Cynthia Milton | Associate Vice-President, University of Victoria

Dr. Cynthia E. Milton is Past President of the RSC College. As Associate Vice-President, she recently co-chaired uVic's Integrated Climate and Sustainability Action Plan. She is concerned with the science-society disconnect in our dramatically changing world and the need for the humanities, arts and social sciences in the diffusion of knowledge. Her interdisciplinary research projects study the constructions of historical narratives in the aftermath of state violence.

Siddika Mithani | President, Canadian Food Inspection Agency

Dr. Siddika Mithani serves as President of the Canadian Food Inspection Agency (CFIA) since February 2019. She holds a Bachelor of Pharmacy and a Ph.D. in Psychopharmacology from the University of Aston (England). She has a wealth of leadership experience in science-based departments including the Public Health Agency of Canada, Environment and Climate Change Canada, Health Canada, Fisheries and Oceans, and Agriculture and Agri-Food Canada.

Heather Morrison | Chief Public Health Officer, Prince Edward Island

Dr. Heather Morrison was appointed Chief Public Health Officer of PEI, Canada in July 2007. A graduate of UPEI, she was also Prince Edward Island's first female Rhodes Scholar. At Oxford University, she completed a Master's and Doctoral degree, majoring in Comparative Social Research and Social Policy, with a doctoral dissertation in health policy decision-making. She returned to Canada for medical training, graduating as an MD from Dalhousie University, followed by specialist training in Public Health at the University of Toronto. Dr. Morrison has practiced medicine in Ontario, Saipan, and PEI, where she resides with her husband and 4 children.

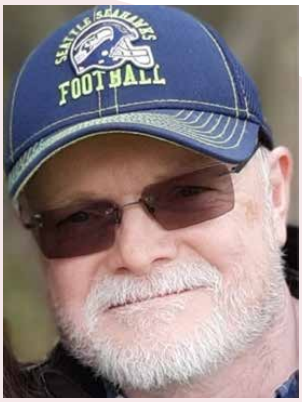
Samira Mubareka | Medical Microbiologist and Infectious Disease Physician, Sunnybrook Health Science Centre

Samira Mubareka is currently a virologist, medical microbiologist and infectious disease physician at Sunnybrook Health Sciences Centre in Toronto, Ontario, Canada and in the Department of Laboratory Medicine and Pathobiology at the University of Toronto. Samira has been working on SARS-CoV-2 since the outset of the pandemic in North America with a focus on virus biology, bioaerosols, genomics and wildlife surveillance through close and cross-disciplinary collaborations. She is also the Chair of the RSC Working Group on One Health.

Mona Nemer | Chief Science Advisor of Canada

Dr. Mona Nemer was first appointed Canada's Chief Science Advisor in 2017, reappointed in 2020, and again in 2022. Prior to this role, Dr. Nemer was Professor and Vice-President of Research at the University of Ottawa and Director of the school's Molecular Genetics and Cardiac Regeneration Laboratory. Dr. Nemer has served on various national and international advisory committees and boards, including as an Executive Committee Member of the COVID-19 Immunity Task Force as well as an ex-officio member of the COVID-19 Vaccine Task Force and the Industry Strategy Council. During her mandate, she has helped to expand and diversify science advice to government by establishing a multidisciplinary network of federal science advisors, founding a pan-Canadian youth council to provide evidence-based input on scientific issues affecting young people, and helping to create the Interdepartmental Indigenous STEM Cluster (I-STEM) to inform and advance Indigenous aspirations and innovation in natural science stewardship. Dr. Nemer has also promoted free, open, and responsible use of science in government through the creation of a model policy on scientific integrity and a roadmap for open science to guide efforts in making federal research available to Canadians. She has provided science advice on numerous issues ranging from research infrastructure to the COVID-19 pandemic. Dr. Nemer holds a PhD in Chemistry from McGill University and has done post-doctoral training in molecular biology at the Montréal Clinical Research Institute and Columbia University. Prior to joining the University of Ottawa, she was a Professor of Pharmacology at the Université de Montréal and directed the Cardiac Genetics Unit at the Montréal Clinical Research Institute.

Norman Neumann | School of Public Health, University of Alberta



Dr. Norman Neumann is a Professor in the School of Public Health at the University of Alberta. He received his PhD at the University of Alberta in 1999 in the Department of Biological Sciences, in the area of comparative immunology. In 2000 he took up a position at the National Water Research Institute as a Research Scientist with Environment Canada, but in 2002 was recruited to the University of Calgary as an Assistant Professor in the Faculty of Medicine. In 2007, he moved to the University of Alberta as part of the formation of the School of Public Health, and where he has also served as the Vice Dean of the School between 2018 to 2021. In his role as an academic professor, Dr. Neumann was also cross appointed as the Program Leader for Environmental Microbiology at the Provincial Laboratory of Public Health (2002-2017), and in this role he was responsible for all public health related microbial water quality testing (~240,000 samples per year) in the Province of Alberta (as well as specialized testing for waterborne disease outbreaks). His area of research centers on One-Water, with a particular focus on anthropogenic and zoonotic waterborne pathogens, tracking host sources of fecal pollution In the environment, bacterial ecophylogenetics, evolution of water-treatment and antibiotic resistant microbes, and public health risks associated with exposure to, or consumption of, contaminated water, including drinking water, irrigation water, recreational water, and reused water.

Ralph Nilson | Board Member, Royal Society of Canada

Dr. Ralph Nilson was invested with the honorary title of President Emeritus at Vancouver Island University upon his retirement in June 2019. He has over forty years teaching undergraduate and graduate students, research and scholarship, international education, and senior leadership in universities across Canada and the United States. He developed an externally funded research program in physical activity, population health and community development. He is recognized for his values based leadership approach and advocates for access to excellence in post-secondary education.

Diego Nobrega | Faculty of Veterinary Medicine, University of Calgary

Diego Nobrega is beginning his tenure as an assistant professor in the Faculty of Veterinary Medicine in the University of Calgary. Diego has a MSc in Preventive Veterinary Medicine a PhD in Infectious Diseases. His research focuses on the One Health aspects of antimicrobial resistance.

Christopher Overall | Department of Oral Biological and Medical Sciences, The University of British Columbia

Professor Chris Overall is a Tier 1 Canada Research Chair in Protease Proteomics and Systems Biology at UBC, a Senior Fellow of the Freiburg Institute of Advanced Studies, Albert-Ludwigs Universität Freiburg, where he is now an Honorary Professor (2014–). He was inducted as a fellow into the Royal Society of Canada in 2018. His 303 papers are influential with an h-index of 101. Chris is best known for his development of proteomic methodology for the discovery of protease substrates in vivo, which he deployed to the investigation of SARS-CoV-2 proteases and leads the UBC NFRT Grant One Health Application on zoonotic viruses in Canadian wildlife.

Brad Pickering | Head of the Special Pathogens Unit, National Centre for Foreign Animal Disease

Brad Pickering is the Head of the Special Pathogens Unit at the National Centre for Foreign Animal Disease (NCFAD) within the Canadian Food Inspection Agency. Dr. Pickering's work focuses on high consequence emerging and re-emerging zoonotic viruses of veterinary importance with an emphasis on pathogenesis, host-virus interactions, and viral transmission. Brad Pickering is the Head of the Special Pathogens Unit at the National Centre for Foreign Animal Disease (NCFAD) within the Canadian Food Inspection Agency. Dr. Pickering's work focuses on high consequence emerging and re-emerging zoonotic viruses of veterinary importance with an emphasis on pathogenesis, host-virus interactions, and viral transmission. Brad Pickering is the Head of the Special Pathogens Unit at the National Centre for Foreign Animal Disease (NCFAD) within the Canadian Food Inspection Agency. Dr. Pickering's work focuses on high consequence emerging and re-emerging zoonotic viruses of veterinary importance with an emphasis on pathogenesis, host-virus interactions, and viral transmission.

Greg Poelzer | School of Environment and Sustainability, University of Saskatchewan

Over the past 30 years, Greg has developed deep connections with industry, government, NGOs and Indigenous communities in Canada and across the Circumpolar North. His research focuses on renewable energy, Indigenous-state relations, and economic development. Greg has served as a Negotiator for SaskPower and FSIN, among others. He is Co-Lead of Fulbright Arctic Initiative III.

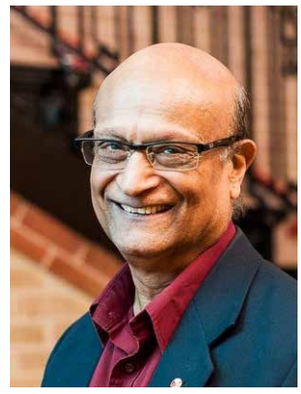
Jesse N. Popp | School of Environmental Sciences, University of Guelph

Dr. Jesse Popp is a Canada Research Chair in Indigenous Environmental Science at the University of Guelph. She is an emerging scholar and member of Wiikwemkoong Unceded Territory who strives to promote inclusive science that embraces multiple ways of knowing. Her work contributes to conservation, sustainability, and the progression of the natural sciences in the spirit of reconciliation.

Apooyak' ii / Tiffany Prete | Department of Sociology, University of Lethbridge

Dr. Apooyak'ii / Tiffany Prete is a member of the Kainai (Blood Tribe) of the Siksikasitapi (Blackfoot Confederacy), located in the Treaty 7 area. She is an assistant professor in the Department of Sociology at the University of Lethbridge. Her program of work is comprised of responding to the TRC's Calls to Action.

Vijaya Raghavan | Treasurer, Royal Society of Canada



Vijaya Raghavan, Treasurer, RSC, is a James McGill Professor in the Department of Bioresource Engineering (FAES) at McGill University. He is Graduate Program Director for Bioresource Engineering, He was inducted into the Royal Society of Canada (RSC) in 2012, and into the Engineering Institute of Canada in 2017. He was President of the Canadian Society for Bioengineering from 2016 to 2017 and was President of the Academy of Science of the RSC from 2017 to 2019.

Nicole Redvers | Director of Indigenous Planetary Health, Western University

Dr. Nicole Redvers, ND, MPH, DPhilc, is a member of the Deninu K'ue First Nation and is an associate professor, and Director of Indigenous Planetary Health at the Schulich School of Medicine & Dentistry at the University of Western Ontario. She has been actively involved at regional, national, and international levels promoting the inclusion of Indigenous perspectives in both human and planetary health research and practice.

Maureen Reed | School of Environment and Sustainability, University of Saskatchewan

Dr. Maureen Reed is Distinguished Professor and UNESCO Chair in Biocultural diversity, sustainability, reconciliation and renewal at the School of Environment and Sustainability, University of Saskatchewan, Canada. Her research program focuses on the social dimensions of sustainability – how people, processes and institutions – shape decisions about environment and development.

Chantelle Richmond | Department of Geography & Environment, Western University

Dr. Chantelle Richmond (Biigtigong Anishinabe) is an Associate Professor in the Department of Geography & Environment at Western University in London, Ontario (Canada). Her research is based on a community-centred model of research that explores the intersection of Indigenous people's health and knowledge systems within the context of global environmental change. Currently, she holds the Fulbright Canada Research Chair in Social Sciences at the University of University of Hawai'i at Mānoa.

Federico Rosei | Centre Énergie, Matériaux et Télécommunications, INRS

Federico Rosei is Full Professor at the Centre Énergie, Matériaux et Télécommunications, Institut National de la Recherche Scientifique, Varennes (QC) Canada, where he served as Director from 2011-2019. He holds the Canada Research Chair (Senior) in Nanostructured Materials. He holds the UNESCO Chair in Materials and Technologies for Energy Conversion, Saving and Storage. Dr. Rosei's research interests focus on structure/property relationships in nanomaterials and their use as building blocks in emerging technologies. His research has been supported by multiple funding sources from the Province of Quebec, the Federal Government of Canada as well as international agencies, for a total in excess of M$ 18. He has worked in partnership with over twenty Canadian R&D companies. He is co-inventor of three patents and has published over 435 articles in prestigious international journals.

Cathy Ryan | Interim Vice-Dean, Faculty of Science, University of Calgary

Cathy Ryan is geoscientist and Interim Vice-Dean in the Faculty of Science at the University of Calgary. She has worked extensively on groundwater and surface water quality (and their interaction) and greenhouse gases. Community focussed and applied research is integral to her research. She was a key partner in the establishment of inaugural MSc programs in water resources management in six highly groundwater-dependent countries.

Johanne Saint-Charles | Institut Santé et société, Université du Québec à Montréal

Dr. Johanne Saint-Charles' research focuses on social and gender inequities in health and the environment. Notably considering how they are constructed and maintained through discourse and relationships. In her work she has adopted an ecosystem approach to health.

Neri Salvadori | Professor Emeritus, Department of Economics and Management, University of Pisa

Neri Salvadori is professor emeritus of Political Economy at the Department of Economics and Management of the University of Pisa and is a Corresponding Fellow of the Accademia Nazionale dei Lincei, for which he serves on the Board of the All European Academies (ALLEA). He has taught, in various capacities, at the Universities of Naples Federico II, Catania, Naples Parthenope, Pisa, Denver, UNAM (Mexico), Karl Franzens (Austria), Meiji (Japan).

Otmar Schober | Professor Emeritus, Department of Nuclear Medicine, University on Münster

Prof. Otmar Schober is a physicist (mentor: nobel laureate Gerhard Ertl) and physician. Former functions: Director of the Department of Nuclear Medicine, Münster University, 1988 to 2013; Prorector; elected expert reviewer of the German Research Foundation, Speaker of collaborative research centers. Founder: European Institute for Molecular Imaging and Cluster of Excellence „Cells in Motion". Actual functions: Vice President of the NRW-Academy of Sciences, Humanities and Arts, Member of acatech, Delegate of the Union of German Academy of Medical Sciences and Humanities.

Baljit Singh | Vice-President Research, University of Saskatchewan

Baljit Singh, a fellow of Canadian Academy of Health Sciences, is Vice-President, Research at the University of Saskatchewan. Previously, he was Dean, University of Calgary Faculty of Veterinary Medicine. He led Canada's first NSERC-funded One Health training program. Baljit has authored ~135 peer-reviewed papers and the Textbook of Veterinary Anatomy (5th edition; Elsevier) and supervised the research training of ~100 students. Among his many awards are the 3M Canadian National Teaching Fellowship and the University of Saskatchewan Master Teacher Award.

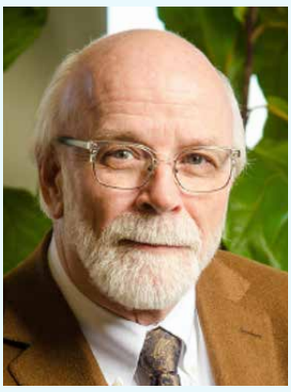
John Smol | President, Academy of Science, Royal Society of Canada

John Smol founded and co-directs the Paleoecological Environmental Assessment and Research Lab (PEARL), a group of ~40 students and other scientists dedicated to the study of long-term global environmental change, and especially as it relates to lake ecosystems. John has authored over 580 journal publications and chapters since 1980, as well as completed 21 books (with 3 more in preparation). Much of his research deals with the impacts of climatic change, acidification, eutrophication, contaminant transport, and other environmental stressors.

Craig Stephen | Veterinarian and Epidemiologist, One Health and EcoHealth Consulting

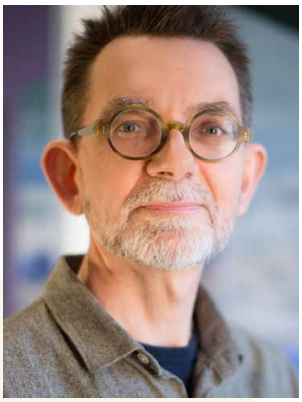
Craig Stephen is a veterinarian and epidemiologist who has worked in the academic and non-profit sectors in a One Health manner since the early 1990s. Past work focussed on emerging environmental threat surveillance and management. His current work focuses on adapting health promotion and harm reduction concepts to One Health and wildlife health.

Michael Strong | President, Canadian Institutes of Health Research



Dr. Michael J. Strong was appointed President of the Canadian Institutes of Health Research effective October 1, 2018. Prior to joining CIHR, Dr. Strong was Dean of the Schulich School of Medicine and Dentistry and a Distinguished University Professor at Western University. From 2000 to 2010, he served as Chief of Neurology and Co-Chair of the Department of Clinical Neurological Sciences at the London Health Sciences Centre and Western University. He also served as Co-Chair of the Canadian ALS Research Consortium and is a former member of the Board of Directors of the ALS Society of Canada. Dr. Strong earned his degree in medicine at Queens University in Kingston, undertook neurology training at Western University, and completed postgraduate studies at the Laboratory of Central Nervous System Studies (Director – D. Carleton Gadjusek,

Nobel Laureate) at the National Institutes of Health, Bethesda, Maryland.



Imre Szeman | Institute for Environment, Conservation, and Sustainability; Department of Human Geography, University of Toronto Scarborough

Imre Szeman is inaugural Director of the Institute for Environment, Conservation, and Sustainability and Professor of Human Geography at the University of Toronto Scarborough. He is author (most recently) of *On Petrocultures: Globalization, Culture, and Energy* (2019) and is completing work on *Energized: Keywords for a New Politics of Energy*.

Nancy Turner | Emeritus Professor, Environmental Studies, University of Victoria

Nancy Turner is an ethnobotanist who has worked with Indigenous Elders and cultural specialists in western Canada for over 50 years, learning about plants and environments. Distinguished Professor Emerita in Environmental Studies, University of Victoria, she has written/edited 30 books and over 150 papers, and is a member of Order of Canada, Order of BC, and Royal Society of Canada, as well as holding honorary degrees from four BC universities.

Connie Van der Byl | Interim Associate Vice-President, Research, Scholarship and Community Engagement, Mount Royal University

Dr. Connie Van der Byl is the Interim Associate Vice-President, Research, Scholarship and Community Engagement at Mount Royal University. Previously, she was the Academic Director of the Institute for Environmental Sustainability. She has a PhD in Energy Management and Sustainable Development with research interests in organizations and their strategic responses to environmental issues.

Liette Vasseur | Department of Biological Sciences, Brock University

Dr. Liette Vasseur is a full professor in the Department of Biological Sciences at Brock University. She is a member of the Environmental Sustainability Research Centre and a CCOVI fellow. Since 2014, she holds the UNESCO Chair on Community Sustainability: From Local to Global at Brock. Her research program is interdisciplinary and links issues such as sustainable agriculture, climate change adaptation and resilience, community-based ecosystem management, and ecosystem governance. Her research is in Canada, China, Ecuador, Burkina Faso, and Senegal. In Canada, three major projects focus on organic and sustainable vineyards in the Niagara region where she studies responses of the ecosystem to alternative techniques and climate change adaptation in rural and coastal communities. She is Honorary President of the Canadian Commission for UNESCO, the deputy chair of the Commission for Ecosystem Management at the International Union for Conservation of Nature (and co-lead of the thematic group on Climate Change and Biodiversity Policy and Practice), and co-editor-in-chief of the journal Botany at the Canadian Science Publishing.

Vivek Venkatesh | Department of Art Education, Concordia University

Vivek Venkatesh, PhD, is a filmmaker, musician, curator and applied learning scientist whose research and research-creation programs focus on community resilience and pluralism through a resolutely public pedagogical approach. Vivek holds the UNESCO co-Chair in Prevention of Radicalisation and Violent Extremism and serves as co-director of the Centre for the Study of Learning and Performance at Concordia University in Montréal, where he is Full Professor of Inclusive Practices in Visual Arts and Chair of the Department of Art Education.

Sarah Viehbeck | Chief Science Officer, Public Health Agency of Canada

Dr. Sarah Viehbeck is the Chief Science Officer for the Public Health Agency of Canada. In this role, Dr. Viehbeck is responsible for providing strategic leadership to oversee and support science excellence, science-policy integration and science promotion, as well as re-energizing the scientific vision and capacity across the Agency. Prior to this role, Sarah worked for 12 years at the Canadian Institutes of Health Research, most recently as an Associate Vice-President. She holds her Ph.D. in health studies from the University of Waterloo.

David Walmsley | Editor-in-Chief, The Globe and Mail

David Walmsley was appointed the Editor-in-chief of The Globe and Mail in March 2014. His appointment returned him to The Globe and Mail where he previously worked as the Managing Editor and National Editor. Under his editorship, The Globe and Mail has won the Michener Award, national newspaper awards, top honours among an international field at the global Online Journalism Awards and a series of Eppy awards recognizing digital excellence.

Frederick Wrona | Svare Research Chair, Integrated Watershed Processes, University of Calgary

Dr. Frederick Wrona is currently Professor, and Svare Research Chair in Integrated Watershed Processes, University of Calgary. He has >30 years experience in regional, national and international environmental research, monitoring and assessment programs addressing climate impacts on freshwater ecosystems; multiple stressor and cumulative effects; environmental toxicology; and integrated watershed monitoring program design.

Nozomu Yachie | Director of Research, the School of Biomedical Engineering, The University of British Columbia

Nozomu Yachie is an Associate Professor and Director of Research at the School of Biomedical Engineering at the University of British Columbia, Adjunct Associate Professor at the University of Tokyo, Canada Research Chair, and Allen Distinguished Investigator. Combining cell engineering, genome editing, and computational methods, Yachie is developing new biotechnologies.

Paul Young | International Secretary, Royal Society of Canada

Professor Paul Young, International (Foreign) Secretary/Chair, International Committee, W. M. Keck Chair Emeritus and formerly Vice-President Research and Innovation, University of Toronto. He is an engineering geophysicist who has focused his research and engineering career on developing seismic methods and instrumentation to monitor fractures and rock quality. Over the past 40 years, he has pioneered techniques for monitoring and interpreting induced seismicity in the mining, petroleum and nuclear waste disposal industries. Through his research groups at Queen's University and the University of Toronto, Canada, Keele University and Liverpool University, UK, as well as through spin off companies in Canada and the UK innovative scientific advances have been made in applied seismology and rock mechanics. He has published over 250 scientific papers in refereed journals and conference proceedings and successfully supervised over 45 Ph.D. students and post-doctoral research fellows.