

Whitehorse, Yukon ~ May 23-25, 2017

Co-hosted by Yukon College and University of Alberta. This conference is being held in the traditional territory of the Kwanlin Dün First Nation and the Ta'an Kwäch'än Council.

May 23

8:30 am – 6:00 pm	<i>Field trip - Haines Junction, Yukon</i>
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May 24 at Kwanlin Dün Cultural Centre, 1171 Front Street, Whitehorse, Yukon

8:30 am	Coffee
9:00 am	Welcome by Katie Aitken, Co-Chair, CCUEN (Yukon College); and Fiona Schmiegelow (UAlberta) Welcome by Marja de Jong Westman, Co-Chair, CCUEN (Capilano University)
9:15 am	Keynote Speaker Dr. David Pearson, Laurentian University - Keynote presentation - <i>"Giving up is not an option"</i>
10:15 am	Break
10:30 am	Performance by Remy Rodden
10:45 am	Session 1: Science Policy in Canada <ul style="list-style-type: none"> Richard Cannings, RPBio, Member of Parliament – <i>"Climate & Energy: Climate action targets-- What science tells us as to how we could meet these targets and why policy pulls us in the other direction"</i> Peter Mushkat, Lecturer, Environmental Science & College of Sustainability, Dalhousie University – <i>"Science as political informant"</i>
12:15 pm	Lunch
1:15 pm	Session 2: Education-Employment Interchange <ul style="list-style-type: none"> Kevin Nilsen, President/CEO, ECO Canada – <i>"Emerging trends within the environmental industry"</i> Alexandra de Jong Westman, RPBio; ElknWillow Environmental Consulting; Vice-President, College of Applied Biology - <i>"The value of regulated professionals"</i> Victoria Castillo, Chair, School of Liberal Arts, Yukon College – <i>"Yukon College's Climate Change Policy Program"</i> Sarah Plouffe, Program Manager,, Skills and Employment Branch, Dept. of Employment & Social Development Canada - <i>"Work integrated learning: A path for innovation"</i>
3:15 pm	Break
3:30 pm	Session 3: Alternative Energies – The Future is Now <ul style="list-style-type: none"> Jason Zrum, Yukon Research Centre, Yukon College – <i>"Considerations for integrating renewables to reduce diesel in the north"</i> Stephen Mooney, Director, Cold Climate Innovation, Yukon College – <i>"Cold climate innovation"</i>
4:30 pm	CCUEN AGM (open to all; voting restricted to CCUEN members)
6:00 pm	Dinner (The Wheelhouse, 2237 Second Avenue, Waterfront Station, Whitehorse)

May 25 at Yukon College, Ayamdigut Campus, 500 College Drive, Whitehorse

8:30 am	Coffee
8:45 am	Welcome by Deb Bartlette, VP, Academic and Student Services, Yukon College Welcome by Margaret Dumkee, Dean, Applied Science and Management, Yukon College
9:00 am	<i>Session 1a: Reconciliation and Indigenization in Environmental Programs</i> <ul style="list-style-type: none"> Tosh Southwick, Director, First Nations Initiatives, Yukon College – <i>“What is reconciliation?”</i> Elaine Alexie, Knowledge Partnership and Community Engagement Officer, Univ. of Alberta - <i>“Bridging community to university: The role of partnerships & programs for indigenous self determination”</i>
10:15 am	Break
10:30 am	<i>Session 1b: Reconciliation and Indigenization in Environmental Programs, cont’d</i> <ul style="list-style-type: none"> Bob Sharp, Experiential Science educator - <i>“Outcomes Based on Engagement in Issues”</i> Eric Sager, Ecological Restoration Program, Fleming College/Trent University – <i>“Innovative interdisciplinary, cross cultural educational programming to help promote environmental education – an example from Fleming College and Trent University’s Ecological Restoration Joint Program”</i> Dan Rononhiakewen Longboat, Trent University – <i>“Indigenous Environmental Studies and Science Program: A university degree granting program in the Social Sciences or the Natural Sciences focused on engaging multiple knowledge systems for innovative thinking”</i>
11:45 am	<i>Federal Environmental Petitions Process (by webcon)</i> <ul style="list-style-type: none"> Kris Nanda, Office of the Commissioner for the Environment and Sustainable Development, Auditor General of Canada - <i>“Federal Environmental Petitions: A citizen’s tool for environmental transparency and accountability”</i>
12:15 pm	Lunch
1:15 pm	<i>Session 2: Campus Sustainability:</i> <ul style="list-style-type: none"> Colleen Wirth, Director, Student & Infrastructure Support, Yukon College – <i>“Sustainability initiatives at Yukon College”</i> Leanne Shewchuk, Director, Office of Sustainability, University of Manitoba - <i>“STARS - what it can do for your sustainable journey – perspectives from the University of Manitoba”</i> Cheryl Schreuder, Faculty, Dept. of Geography, Capilano University – <i>“Connecting sustainability within the curriculum: a model from Liberal Studies, CapU”</i>
2:45 pm	Break
3:00 pm	<i>Session 3: Environmental Programs – Idea Sharing</i> <ul style="list-style-type: none"> Ingrid Leman Stefanovic, Dean, Faculty of Environment, Simon Fraser University – <i>“The pros and cons of professional accreditation of environmental programs”</i> All participants – general discussion of environmental programs and curricula
4:00 pm	<i>Wrap-up & Closing Remarks</i>

WIFI access at CCUEN 2017:

Kwanlin Dün Cultural Centre
Yukon College

Network: KDCC Guest; Password: Culture!

Network: YC-Guest; create a guest account using name and email

KEYNOTE SPEAKER:



David Pearson

David is an earth scientist in the School of the Environment at Laurentian University in Sudbury. For many years he was a member of the Geology Department but for the last dozen years he has been teaching in Canada's only graduate program in science communication. From 1980 to 1986 he was on leave as the Project Director and then Founding Director of Science North, the science centre in Sudbury. He is currently working with remote First Nations in far north Ontario studying the past and likely future impacts of climate change and potential adaptation options.

MUSICAL PERFORMANCE:



Remy Rodden

Remy Rodden is an Environmental Educator and Performer, who has released two albums, the not-for-kids-only Think About The Planet recording in 1997, and 2011's In The Hills which is more tailored to the older learners and listeners with gems like "Woman with a Chainsaw" and "Suffering Optional". Rodden has taken his music from sea to sea in Canada and to all the continents, including a couple of trips to Antarctica. He's headlined with Juno winner Peter Lenton, and performed at many schools, festivals, conferences and special events, including Winterlude (Ottawa), the Mayor's Environment Expo in Calgary, Frostbite Music Festival and Dawson City Music Festival to name a few. Remy Rodden has also been honored by having his song "What's That, Habitat?" chosen to be part of a United Nations music compilation to celebrate the Earth Charter and participating in the Yukon Journey millennium project of the Yukon Arts Center with performing artists from all over Canada. While music is a passion and a vehicle for Remy Rodden, he also spends his days working as a professional environmental educator and trained teacher in the Yukon, a home he has enjoyed for over a quarter century with his family.

SCIENCE POLICY IN CANADA:



Richard Cannings

A renowned natural historian, Richard was elected in 2015 as Member of Parliament for South Okanagan—West Kootenay. Richard has worked tirelessly to protect B.C.'s great outdoors. He served for over a decade on the B.C. Environmental Appeal Board and for eight years as co-chair on the Committee on the Status of Endangered Wildlife in Canada. Author of a dozen award-winning books on the natural history of British Columbia, Richard was named B.C.'s Biologist of the Year by the Association of Professional Biologists in 1996. In 2008, he was named an Honorary Fellow at Okanagan College. Until his election, Richard served as a director on the board of the Nature Conservancy of Canada and worked with Bird Studies Canada, coordinating surveys on the status of Canada's bird populations. He worked in the University of British Columbia's Zoology Department for 15 years.



Peter Mushkat

Since graduating from Dalhousie Law School in 1986, I have been working in the areas of marine and environmental law as a consultant, researcher, and teacher. I have taught environmental law; international environmental law; and administrative law at Dalhousie in the undergraduate Environmental Science Program offered by the Faculty of Science since 2000. Five years ago I was appointed to the College of Sustainability at Dalhousie where I am involved in coordinating the experiential learning courses – capstone and internship – offered there. I also deliver an online introductory course in environmental law for Acadia University.

As a consultant, I have worked with government, agencies, and the private sector focusing on issues dealing with the environment and public policy. I worked with the Legal Information Society of Nova Scotia, a public legal education organization, assisting in their mission to help citizens better understand the law as it applies to them and was as principal author and editor of *A Guide to Environmental Law for Nova Scotians*. Over the next three years I will be easing into retirement and focusing on gardening.

EDUCATION-EMPLOYMENT INTERCHANGE:



Kevin Nilsen

Kevin Nilsen rejoined ECO Canada in September 2016 to commence the role of President & CEO of the organization. Kevin started his career in leadership as an officer in the Norwegian Army before moving to Canada in 2000. After graduating from University of Calgary, Kevin worked 7 years for ECO Canada, most recently as Director of Professional Services. During his absence from ECO Canada, Kevin managed large global offshore oil and gas projects for Aker owned companies. The experience in the energy sector gave him great

exposure to clients and stakeholders in Europe, Asia, and USA. During this time, he was first based in Norway and subsequently in Houston, TX. As a key highlight, Kevin led the development of a cutting edge Riser Gas Handling tool that ensures a safer and more environment friendly drilling process. At ECO Canada, Kevin was responsible for the establishment of the Canadian Centre for Environmental Education (CCEE). He was also instrumental in the launch of regional networking events across the country, the growth of EP certification, and academic partnerships. Throughout his career, Kevin has always had an unprecedented commitment to clients. In his role as CEO, Kevin’s key focus is to ensure that ECO Canada’s products and services align well with industry, government, and academic stakeholders.



Alexandra de Jong Westman

Alexandra is a Registered Professional Biologist and was recently elected as Vice President of the College of Applied Biology. Alexandra has been a member of the College for the past ten years, and has served on the Council governing the College since 2015 as a Councillor at Large. Alexandra received her Master of Science in Toxicology and Animal Science in 2008, and since then has provided environmental consulting services to First Nations and Territorial governments, the natural resource industry, and non-government sectors in the Yukon and throughout western Canada.

These consulting services have ranged from biological inventory and species at risk assessments, toxicological studies, human health and ecological risk assessments, and serving as a technical advisor in provincial, territorial, and federal environmental assessment processes.



Victoria Castillo

Victoria Elena Castillo is a Canadian archaeologist. She has been an instructor of History and Anthropology at Yukon College in since 2010 and has been the chair of the Faculty of Liberal Arts since 2014. Victoria's research focuses on the early contact period in the Yukon, particularly socio-economic interactions between Indigenous peoples and newcomers. Prior to working at Yukon College, she was an archaeological consultant, based out of Whitehorse, Yukon, where she conducted community lead archaeology projects throughout the Territory. Her

specialisation is in historical archaeology, but working in the Yukon has allowed her to excavate pre-contact sites that go back thousands of years as well as contact-period and 20th century sites.



Sarah Plouffe

Sarah Plouffe is a Program Manager in the Skills and Employment Branch within the Department of Employment and Social Development Canada. Mrs. Plouffe was part of the design team for the Student Work-Integrated Learning Program and has also been leading on the implementation of this new program, which is fulfilling a Government of Canada Budget 2016 commitment to support multi-stakeholder partnerships that create work-integrated learning opportunities for students in post-secondary education programs in key sectors of the economy. Prior to taking on her current responsibilities, Mrs. Plouffe has held various positions related to the research and evaluation of competencies and learning. As a research and measurement specialist

within Statistics Canada, she gained extensive experience and knowledge on the International Adult Literacy and Skills Survey (IALSS) and the Programme for the International Assessment of Adult Competencies (PIAAC), which has led her to working on policy development. Mrs. Plouffe holds a Master of Arts degree in Measurement and Evaluation from the University of Ottawa and a Bachelor of Arts degree in Education (Université du Québec en Outaouais). She is also the president of a community organisation devoted to helping children in her community.

ALTERNATIVE ENERGIES – THE FUTURE IS NOW:



Jason Zrum

Jason Zrum works as a Research Assistant for the Industrial Research Chair in Northern Energy Innovation at the Yukon Research Centre. He received his Bachelor of Engineering in Mechanical Engineering at the University of Victoria and is currently pursuing a Masters of Engineering in Electric Power Engineering at the University of Waterloo. His current work entails the modeling, simulation, and analysis of power system issues associated with a high penetration of renewable energy generation in isolated power systems.



Stephen Mooney

Stephen Mooney is a Canadian technology and innovations specialist who guides the development, commercialization and export of sustainable cold climate technologies. As the Director of Cold Climate Innovation (CCI) at the Yukon Research Centre, Mooney promotes the practical application of cold climate technologies for subarctic regions around the world. The main thematic areas of research for CCI include: Food Security, Alternative Energies, and Cold Climate Housing. Prior to his position with CCI at the Yukon Research Centre, Mooney spent seven years working in the field of telecommunications. During that time, he worked in product development, project management and marketing while designing and pricing various technologies across northern Canada. He also spent half a decade developing and implementing computer software throughout the United States. Stephen has been certified in Professional Project Management and has used these skills in R&D, telecommunications, software development, construction and marketing. Stephen also sits on the Board for the National Research Council of Canada. Raised in the Yukon, Stephen Mooney has a passion for wilderness and a respect for the resilience of those residing in northern climates. "It gives me great satisfaction supporting Yukoner's to develop their ideas into innovative products that will help both Yukoner's and northerner's around the globe."

RECONCILIATION AND INDIGENIZATION IN ENVIRONMENTAL PROGRAMS:



Tosh Southwick

Tosh Southwick, belongs to the wolf moiety and is a Citizen of Kluane First Nation. She grew up in a small northern community and is the mother to three children and the auntie to many more. She is the Director of First Nation Initiatives (FNI) and the School of Academic Skill Development at Yukon College. The FNI office is tasked with integrating an understanding of First Nations and with ensuring that Yukon College is meeting the education and training needs of of the 14 Yukon First Nations. Prior to joining Yukon College Tosh has worked in Governance, Education, Human Resources and Health for various First Nation Governments and organizations. She has also served as youth councilor and Deputy Chief for her First Nation. She currently sits as the chair of the Yukon First Nations Education Commission, the Training Policy Committee and is an active member of Kluane First Nation Development Corporations. Tosh acquired her B.A. with honours in Psychology from the University of Victoria and is currently doing a Masters with the University of British Columbia.



Elaine Alexie

A member of the Teetl'it Gwich'in First Nation, Elaine Alexie was born in the NWT and raised in her home community of Fort McPherson. She holds an MA in Political Science from the University of Victoria, and currently is the Knowledge Partnership and Community Engagement Officer with UAlberta North at the University of Alberta in Edmonton, Alberta. Of her supportive roles at UAlberta North, she facilitates northern research workshops for faculty and students; and works to build partnerships and relationships with northern communities. Her passions in life is being on the rivers in her ancestral lands of the Peel Watershed in the central Yukon territory, running, learning her peoples' material cultural practices, and spending time with her large extended Gwich'in family.



Bob Sharp

Bob Sharp has been a resident of the Yukon since 1968 when he moved to Ross River as a school principal. He was employed by the Yukon Government over a period of 46 years as a principal in three different schools, a teacher, the Coordinator of Research, a Regional superintendent, Experiential Education Consultant and the Coordinator Curriculum Development. His training has been in education and regional planning. He has been instrumental in creating a variety of experiential programs and activities and a wide variety of curriculum resources in a number of Yukon schools. Bob established and taught Experiential Science 11, a program involving students in 45 days of field studies each semester, covering subjects such as biology, chemistry, geography, art, applied skills and forestry. He taught the Outdoor Pursuits and Field Studies course to Yukon Native Teacher Education Program (YNTEP) students over a period of twelve years. Since semi-retirement, Bob has taught environmental monitoring protocols to teachers across western Canada. Most recently he has developed a small business manufacturing greenhouse kits designed for cold climates. Bob, Clara, and their two daughters are teachers while their son is an animator who also teaches animation to a number of Whitehorse schools.



Eric Sager

I am a professor in the Ecological Restoration Program, a jointly administered program between the School of Environmental and Natural Resource Sciences at Fleming College and the Environmental and Resource Studies Program at Trent University and adjunct professor in the Environmental and Life Sciences Graduate program where my research interests are largely related to understanding the response of plant communities to environmental disturbances. I have a strong belief in working on research questions that have applications beyond the academic community and have partnered with government agencies, citizen groups, private landowners, and environmental consultants.



Dan Roronhiakewen Longboat

Dr. Dan Longboat Roronhiakewen “He Clears the Sky” belongs to the Turtle Clan of the Mohawk Nation. He is a citizen of the Haudenosaunee, originally from Ohswe:ken the Six Nations community on the Grand River Territory and now living and working in Peterborough, Ontario. Longboat earned a Bachelor’s Degree from Trent University in Indigenous Studies with a special interest in Human Psychology. He received with distinction a Master’s Degree in Environmental Studies and a PhD in Environmental Studies from York University. His PhD dissertation “The Necessity of BioCultural Restoration” won the Award for Excellence from the Faculty of Graduate Studies. Longboat is currently an Associate Professor in the Department of Indigenous Studies and is the Founder and Director of the Indigenous Environmental Studies and Sciences Program at Trent University, in Peterborough Ontario. This is the first

and only accredited university level program for Indigenous Environmental Studies in the country. The program is founded upon a basis of cultural knowledge, which serves to support research and development of culturally based courses and integrated science programs, focused upon Indigenous: human health and the environment, traditional foods and medicines, natural resource restoration, community sustainability, international Indigenous networks, Indigenous languages, cultures and the recognition of traditional life skills and practices, Indigenous jurisdiction, governance and sovereignty. Noted as an exceptional speaker, Longboat provides guest lectures in numerous communities, schools, colleges and universities throughout Canada and the United States. Longboat strongly encourages the promotion of Indigenous knowledge and the study with traditional peoples and Elders. He recognizes the critical importance of language learning and the necessity of developing of culturally based programs. Longboat encourages youth to participate in initiatives that work to create positive change that serves to benefit their communities and the natural environment. He believes direct involvement and active participation through collaboration and always using a “Good Mind”, to be a major part of our responsibilities as human beings and in particular as Haudenosaunee (The People of the Longhouse of One Family) “We must always work together to create positive change for the continuance of all Life.”

FEDERAL ENVIRONMENTAL PETITIONS PROCESS:



Kris Nanda

Kris Nanda is responsible for the environmental petitions portfolio managed by the Commissioner for the Environment and Sustainable Development (CESD) and has been interested in environment issues since childhood. He graduated from the University of Virginia (BA in History) and its School of Law where he focused on Environmental Law. Kris originally came to Canada as a diplomat posted to Toronto and later moved to Vancouver to study theology at Regent College, with a focus on environmental stewardship from a biblical perspective. Kris and his family moved back to Ottawa in 2001 to work with the Federal Climate Change

Secretariat. Before joining the CESD in 2017, Kris served with several federal departments, where his roles included working on Sustainable Development Strategies, and, promoting sustainable community planning. Kris is an avid bike commuter, enjoys hiking, current events and trivia, and is a big fan of baseball. He chairs his local Community Association and has served on the City of Ottawa environmental stewardship advisory committee, and helped start up a community garden at a local church.

CAMPUS SUSTAINABILITY:



Colleen Wirth

Currently the Director of Student and Infrastructure Support at Yukon College, Colleen manages several departments that are fundamental to successfully supporting students in their educational journey. These departments are Facilities, the Bookstore, Welcome Centre, and Campus Housing. Colleen recently served as Chair of the Sustainability Committee at Yukon College where she took a lead role on implementing many sustainability practices across campus. Some sustainability incentives Colleen spearheaded are the installation of water bottle filler stations, hand dryers, and the elimination of non-reusable water bottles.

Beyond her role as a Director, Colleen has been a Registered Nurse for over 30 years, bringing a wealth of experience to the positions she has held at Yukon College. An active community volunteer, other roles have included Chair of the Yukon Advisory Committee on Nursing, President of the Teen Parent Access to Education Society, member of Safe Community Whitehorse, Director on the Nakwaye Ku Daycare Board of Directors and a member of the Canadian Nurses Association Informatics Committee. Past commitments include serving as President of the Yukon Registered Nurses Association, Director on the Board of the Canadian Nurses Association, Chair of the Health and Social Services Advisory Council, Chair of the Substance Abuse Prevention Coalition (Outreach Van) and Chair of the National Addictions Awareness Committee. Colleen has recently been appointed as a member on the Northern BC/Yukon Canadian Red Cross Regional Advisory Council. Colleen's educational background includes a Bachelor of Science in Nursing from the University of Victoria in 1998 and a Diploma in Nursing from St. Boniface General Hospital in 1976. When not working or volunteering, Colleen enjoys spending her time outdoors - hiking, golfing, gardening, and photographing.



Leanne Shewchuk

Leanne Shewchuk, Director Office of Sustainability, provides leadership in the development of sustainable initiatives at the University of Manitoba. Leanne holds a Master's Degree in Natural Resources Management from the University of Manitoba and has also served as a long-standing sessional instructor at the University since 2002. Leanne has 20+ years of experience with innovative planning, project management, environmental protection and sustainable development initiatives. She has recently lead the development of strategic engagement programs and environmental protection for major northern east side road projects and the Winnipeg Floodway Expansion Project.



Cheryl Schreader

I spent my childhood exploring the good ol' outdoors in rural Ontario: backyards, provincial parks, lakes, rivers, beaches, fields and snow banks. In my first undergraduate term at Trent University in Peterborough, I chose courses in geography and environmental science because I wanted a career where I could continue to be outside and could always be learning about nature. I was hooked. Each summer I worked as a lab assistant, which helped me connect with the processes I had been learning about in the classroom and gave me a taste for field work. I left Trent with an Honours Bachelor of Science with a double major in

Physical Geography and Environmental Science and went on to McMaster University in Hamilton to work on a Masters of Science degree in Climatology. My research involved investigating carbon and energy fluxes from a subarctic wetland region in Churchill, Manitoba. I spent four summers - and one winter month! - mucking through that wonderful landscape. It was a formative experience for me as a geographer and it helped crystallize my skills in conducting field research. It also instilled in me a love for the north. A road trip brought me west and to British Columbia in 1996, and I have lived here ever since. In 1997, I was delighted to join the Department of Geography at Capilano University where I teach courses in physical and environmental geography. Working here has unearthed another passion – teaching. In an environment where teaching is paramount, my position at CapU allows me to explore new and better ways to make connections between the classroom and the outdoors so I can best introduce students to the wonderful world of geography. My interests encompass all things related to physical geography, environmental issues, children learning geography and organic gardening.

ENVIRONMENTAL PROGRAMS – IDEA SHARING:



Ingrid Lemman Stefanovic

Ingrid Lemman Stefanovic is Dean of the Faculty of Environment at Simon Fraser University, Vancouver, Canada, and Professor Emerita, Department of Philosophy, University of Toronto. Her teaching and research center on how values and perceptions affect public policy, planning and environmental decision making. She is Principal Investigator of a project examining the evolution of environmental curricula at Canadian post-secondary institutions. Dr. Stefanovic has served as Executive Co-Director of the International Association for Environmental Philosophy and Senior Scholar at the Center for Humans and Nature, Chicago and New York. Recent books include *Safeguarding Our Common Future: Rethinking Sustainable Development* and the co-edited volume entitled *The Natural City: Re-Envisioning the Built Environment*.

Map of downtown Whitehorse, showing Westmark Hotel, Kwanlin Dün Cultural Centre (the venue for May 24), and the Wheelhouse restaurant (conference dinner location):



Map of Yukon College campus, showing parking area and conference location (Lecture Hall):

