

DECEMBER
2018

{{ECHO}} Update

Environment, Community, Health Observatory Network
Strengthening intersectoral capacity to understand
and respond to health impacts of resource development



Welcome to our ECHO Network Quarterly Update!

As 2018 is coming to a close we're happy to share a few key updates about ECHO Network activities.

- Our **second Annual Meeting** was hosted in Camrose, Alberta and provided an opportunity for team members to re-connect and reflect on the progress of ECHO work over the past year. You can read about the meeting in this 2018 Annual Meeting Summary Report.
- We have confirmed the dates for the **2019 ECHO Network Annual Meeting**—which will be hosted in **Moncton, New Brunswick – May 27-31, 2019**. Stay tuned for further details.
- ECHO Network **teams** and **committees** have been looking ahead and planning opportunities for an online workshop series where ECHO Network Members will share and exchange on integrative tools and processes to increase understanding and response to the cumulative determinants of health impact. Themes and topics for the 2019 online workshop series will be announced in early in the new year.
- The **Research Design Working Group** is moving to rotating chairship and focusing in on key areas of research over the next year, including on progressing ECHO Network research outputs such as publications.
- The **ECHO Operations Committee** continues to be an active space for sharing and exchange across regional cases where emerging issues are raised, ideas for ECHO activities are discussed, and collective input is gathered about 'promising practices' emerging in different cases, including proposals for sharing tools and processes with different audiences, using online, interactive and face-to-face formats.
- One of the first online workshops has recently been hosted twice—Joseph Gothreau, a Research Assistant with ECHO and UNBC's Integrated Watersheds Research Group, has been demonstrating his GIS genius through multiple training sessions profiling the **integrated Watershed Portal**, and is planning ahead for an additional training requested by northern BC's Nechako-Lakes School District 91.
- The work of **Team Equity** has been progressing through the development of a toolkit and brief literature review around the integration of sex and gender perspectives into research projects. This toolkit is based on best practices articulated by

CIHR in relation to the Sex/Gender Champions role they have embedded into their research funding requirements. A draft of this tool will be circulated to the team for comment in the New Year.

- **Team Learning & Impact** has continued working together to synthesise important learning reflections and questions for ECHO to carry forward into 2019, through the 2018 Annual Meeting Report, and an internal learning & impact report reflecting on learning from the ECHO Annual meeting, which will be available to ECHO Network members in the near future.
- On November 29 and 30 four ECHO Network Members—Sandra Allison, Margot Parkes, Anne Fauré and Diana Kutzner will attend a meeting convened by the **CIHR Environments and Health Signature Initiative (EHSI)** in Toronto, and which seeks to encourage exchange across other EHSI-funded project teams. Margot also has follow-up meetings with co-leads of two other EHSI-funded teams to discuss future collaborations and exchange, including: “A SHARED Future (Achieving Strength Health, and Autonomy through Renewable Energy Development for the Future): Exploring Intersectoral Partnerships for Healthy Lands, Healthy Peoples” and “Climate Change & Indigenous Food Systems, Food Security, & Food Safety (CCIFS3)”.
- We are pleased to welcome new ECHO Network team members, including **Louisa Hadley** who joins us as the **ECHO Network Project Assistant**. At the same time, we also offer a big thanks to **Shayna Dolan** as she transitions out of the role of Project Assistant to focus on her role as **Research Assistant with the Northern BC Regional Case**, as well as winding up her Masters thesis. We also welcome **Sally Maguet**, **Evaluation Consultant** and **graduate student at SFU**, who will be working closely with Team Learning & Impact to help us move forward on evaluation activities across the network in early 2019. See the last page of this Update for profiles of other new team members, including Hara Saadia and Brian Portner.
- **Team Watersheds** is planning a meeting in early 2019 to pick up conversations and ongoing work on integrative indicator frameworks to connect environment, community and health in watersheds. Please email echonetwork@unbc.ca in case of questions.
- A series of events has fuelled international exchange among **ECHO partners in the Oceania region**. An Oceania Planetary Health Forum “Strengthening Partnerships for Nature & Human Health” was held in Nadi, Fiji on November 1-2 as part of a collaboration between the University of Sydney Planetary Health Platform, the Edith Cowan University Centre for Ecosystem Management, the Oceania regional office of IUCN and other regional organisations. ECHO Network colleagues Anthony Capon, Pierre Horwitz and Aaron Jenkins co-convened the event, and Helen Moewaka Barnes and Margot Parkes brought perspectives from Aotearoa/NZ (and Canada!). The resulting **Call to action: Policy Dialogue on Planetary Health in the Oceania Region** profiles intersectoral and intercultural themes relevant across the ECHO Network. Discussions in Fiji continued during the International Indigenous Research Conference hosted by Ngā Pae o te Māramatanga (Maori Centre of Research Excellence) November 13-16 in Tamaki Makaurau, Auckland. Helen Moewaka Barnes, Margot Parkes and other members of Ta Tai Ao (Environment) theme of Ngā Pae o te Māramatanga, progressed plan-

ECHO preview: Upcoming meetings and events, involving or hosted by ECHO Network team members

We welcome team suggestions for future upcoming events and meetings. Please email ECHO Research Manager, Diana Kutzner at echonetwork@unbc.ca

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| April 7-11, 2019 | This event in Rotorua, Aotearoa New Zealand, may be an opportunity for exchanges with Oceania ECHO groups: 23rd IUHPE World Conference on Health Promotion “Waiora: Promoting Planetary Health and Sustainable Development for All”. http://www.iuhpe2019.com/ |
| April 30—May 2, 2019 | Canadian Public Health Association Conference—Public Health 2019 |
| May 27-31, 2019 | The next ECHO Network Annual Meeting will be hosted by the Université de Moncton and NBEN in New Brunswick. Stay tuned for updates! |

Publications of Interest

1. Brisbois BW, Reschny J, Fyfe T, Harder H, Parkes MW, Allison S, Buse CG, Fumerton R, Oke B. (2018). Mapping research on resource extraction and health: A scoping review. *Extractive Industries and Society*, in press. DOI: 10.1016/j.exis.2018.10.017
2. Buse CG. (2018). Why should Canadian public health agencies conduct climate change and health vulnerability assessments? *Canadian Journal of Public Health*, early access DOI: 10.17269/s41997-018-0118-6

UNBC/ Northern Health Regional Case



Hospital Beach in Kitimat, BC. Left: Rio Tinto Alcan aluminum smelter. Future site of LNG Canada export facility behind smelter. Photo credit: Dr. Marieka Sax.

The Northern BC case continues to focus their work on the topic of ‘taking notice for action’ and has developed a research ethics protocol to engage intersectoral initiatives addressing the community and health impacts of resource development. This work will seek to profile existing initiatives and conduct in-depth key informant interviews to better understand the contexts, mechanisms and outcomes of intersectoral action across northern BC.

CIRC delivered a presentation and workshop in Smithers in September 2018 as part of an ongoing project to develop new tools for assessing the cumulative impacts of resource development. Additional workshops for this project will take place in Spring 2019 in the Peace River Region, Fort Nelson, and Vanderhoof. In addition, CIRC is launching a new research project on the gendered impacts of the pre-operational "buzz" phase of resource development, focusing on the activity surrounding LNG Canada in Kitimat.

Northern Health (NH) continues to support the Government of BC’s Environmental Assessment (EA) revitalization process. The province recently released an [Intentions Paper](#) outlining intended changes and introduced a revised Environmental Assessment Act ([Bill 51](#)) in the Legislature on November 5th for first reading. The news release can be viewed here: <https://news.gov.bc.ca/releases/2018ENV0080-002122>. We are also in the process of applying for funding from Health Canada to conduct a Climate Change and Health Capacity, Vulnerability and Adaptability Assessment for the NH region in collaboration with various partners. The Health and Resource Development Office (HRDO) continues to be busy supporting various EAs and associated condition requirements, and has been continuing to engage with LNG Canada and the Coastal GasLink Pipeline as the projects prepare to move ahead with construction. HRDO will also be hosting an Interagency Meeting this month and is hoping to get a head start on smoke messaging for next summer.

SFU / FNHA Regional Case

In October, Linda Pillsworth (FNHA Manager, Environmental Public Health Services) attended the BC Social Studies Teachers Association Professional Development Conference. She presented with Tom Okey (BC HUB LEO Network Coordinator) and Tracey Murphy (Social Studies teacher, Saanich School District No.63) on their work with the “Student – Elder Inquiry in Environmental Change” project on the LEO Network. The project and a teaching unit were well received and there was some keen interest in the Local Environmental Observer (LEO) Network being utilized as a tool in the classroom to explore the discussion on climate change and its impacts. A benefit noted during the workshops was that the LEO Network provides potential links across different disciplines such as science and social studies.

Our regional team is excited to have Lindsay Beck (FNHA Manager, Population Health & Wellness) back from her maternity leave and we are very thankful for Krista Stelkia’s participation on our case study team in Lindsay’s absence.

For the purposes of the First Nations Population Health and Wellness Agenda, a joint initiative between FNHA and Provincial Health Officer, we were tasked with identifying an indicator that represented an Indigenous understanding of the land-wellness connections that support First Nations physical, emotional, mental and spiritual well-being. This indicator development process represents an opportunity to shift the paradigm from a seeing the environment as a source of hazards towards an innovative, health promoting and strengths-based approach which fosters reciprocal maintenance – “to take care of each other, our communities and our natural environment” (Ottawa Charter for Health Promotion, 1986). For Indigenous peoples around the globe, the land is paramount. Their and all of humankind’s health and wellness is inextricably linked to land – the source of life. To further this ‘ecological health indicator’ work, a series of Knowledge Holder Workshops will be occurring in February 2019 where community perspectives, knowledge and stories will be shared.

UofA / Battle River Watershed Alliance Regional Case

First off, a big thank-you to everyone who attended the 2018 ECHO Network Annual Meeting in the Battle River watershed! It was wonderful to share a taste of our Saskatoon berries, Battle River landscapes, and local stewards who are working to protect this place that we love. In Fall 2018, the Battle River Watershed Alliance (BRWA) has been progressing its work in the areas of source water protection and riparian restoration. We are involved in a [project team of the Alberta Water Council](#) that is developing a guidance document to inform a common approach to source water protection across Alberta and provide implementation tools to support this work. Protecting sources of drinking water is an area that would benefit immensely from further integration of health, community, and environment considerations. In the Battle River watershed, this integrative work is currently being undertaken through implementation of the [Camrose Source Water Protection Plan](#). This includes working with agricultural producers to implement beneficial management practices (BMPs) near water, which is the central focus of the BRWA's [Buffalo Trail Riparian Restoration Program](#). We have been connecting with local landowners through various outreach events over the past year, including this summer's field day focused on riparian health and livestock watering system options. A number of agricultural producers along the Battle River and tributary streams have expressed interest in implementing BMPs on their land, and the BRWA and our program partners plan to provide technical and financial support for these projects in 2019.



Landowners learn about riparian health assessments along the banks of the Battle River.

The BRWA was also happy to provide a presentation as part of the October [“EcoHealth in Action” webalogue](#) hosted by the western node of CoPEH-Canada. The webalogue highlighted current projects of the four regional cases of the ECHO Network, and was a great opportunity to gain valuable feedback from a wider audience.

UdeM / NBEN Regional Case

Fall is a very busy time in the NBEN office. Along with several other meetings and events, the annual Children's Environmental Health Conference will be happening in November. It is titled “Tipping the Balance: Cumulative Impacts on Children's Health.” It will explore ways in which to address negative cumulative impacts and promote positive cumulative impacts through education and policy change. The conference will take advantage of placed-based learning in a heavily industrialised area of New Brunswick.



In addition to this, our Risks and Benefits Calculator is now operational and live though not available to the public. We will be sharing more information with you during a knowledge to action workshop soon.

We're growing! Since our last update in July, we've welcomed five new people to the NBEN staff; four coordinators and an administration assistant. In fact, we've expanded so much lately that we've outgrown our current office and will be moving in December. We're very excited! Also, for the regional case we have a new research assistant, Hara Saadia, who will be working closely with Anne Fauré.

ECHO Network Team Member Profiles

Louisa Hadley, ECHO Network Project Assistant

Louisa Hadley is a Master's Student in the Natural Resources and Environmental Studies program at UNBC. For her Master's, she will be exploring the potential of environmental policy to connect individuals with the environmental impact of their actions. Louisa was drawn to the ECHO Network as she was interested in the collaborative approach to understanding the cumulative impacts of resource extraction. Louisa joined ECHO in October 2018 as the Project Assistant and is keen to be a part of the Network



Hara Saadia, UdeM/NBEN Regional Case Intern

My name is Hara Saadia and I am from Chad. I am a fourth year student in my undergraduate degree in biochemistry in the co-operative program at the Université de Moncton in New Brunswick. I am interested in health issues that's why In September 2018 I started my third internship coop under the supervision of Céline Surette and Anne Fauré. My role is to examine how evidence has been use or not to understand cumulative impacts of resource development in Bay of Chaleurs and more specifically in Belledune region. I am also curious to see if and how cumulative impacts are accounted for in policy and decision making in this area. I also bring my help to develop a workshop on cumulative impacts on environmental health that will take place in New Brunswick Children's Environmental Health Collaborative annual meeting in November 2018.

Sally Maguet BSc, ECHO Team Learning & Impact Consultant

Sally is the owner and principle consultant for Context Evaluation Consulting in Vancouver, BC. She has designed, implemented and reported on evaluations of complex, system oriented initiatives in a variety of health programs and services including Mental Health and Substance Use, Harm Reduction, Indigenous and Environmental Health. Working collaboratively and in partnership with service users, service providers and decision makers, Sally uses evaluation as a tool to inform and guide research and planning to improve health services and outcomes on a provincial and national scale.



Brian Portner, SFU/FNHA Regional Case Research Assistant



Brian is an undergraduate student in his final year of studying Health Sciences at Simon Fraser University, currently completing Honours coursework surrounding the Social Determinants of Health with an emphasis on the well-being of rural, northern, Indigenous, and other vulnerable/marginalized populations. He is working as a Research Assistant for Team Equity's Sex and Gender Champion to help advance important issues related to sex and gender within the regional case studies and throughout the ECHO Network as a whole. He will be helping to create diverse resources such as a guiding document which will assist in increasing understanding around sex and gender issues and help to incorporate them when proposing, conducting, and analyzing research. It is Brian's hope that he can have a positive impact on the Network and he looks forward to becoming more involved.