

Water and Climate Careers

Teacher Professional Development Program
October 19-20, 2017

A hands-on learning opportunity to support teachers in bringing water and climate innovations and associated careers to their classrooms!

For many young people, the first consideration for their future careers happens in the classroom with the support of teachers, career counsellors and career education practitioners. Water and climate change are intimately connected; in 2014

an Eco Canada labour report states, “clean water is essential to every habitat on Earth, making the management of water quality and water quantity a critical aspect of many environmental jobs.... climate change is the most commonly cited trend affecting the job market and skills requirements (of environmental professionals)” It can be challenging for teachers to stay informed about the rapidly changing natural resources sector, and so for these reasons, Inside Education created the **Water and Climate Careers Professional Development Program**. Open to career professionals and educators from across Alberta, the two day program introduced participants to the interdisciplinary facets of water and climate, including science, innovation and post-secondary programs and training in this expanding field.



“This PD has awoken my inspiration to serve and inspire my students. My vision of how students can enter the workplace after high school was widely broadened” Jaymie Reinhart, Camrose

2

DAYS

16

PARTICIPANTS

4

BEHIND-THE-SCENES
TOURS

13

EXPERT GUESTS

Program

The program aimed to allow career practitioners to:

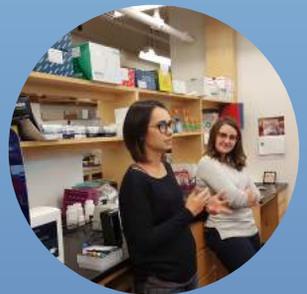
- learn about the diverse career opportunities in the water and climate sector
- experience first-hand some of the training, lifestyle, and work conditions of several water-related careers
- gain resources, tools, and personal accounts to enhance careers education for students

Thursday October 19	Friday October 20
<p>Water & Climate 101 - Jay White, <i>AQUALITY Consulting</i></p>	<p>Water & Climate Innovations/ STEM Careers - Vicki Lightbown . <i>Alberta Innovates</i></p>
<p>Career Roundtables An interactive session to meet people working in Alberta’s water sector. Gain insight into the education, training and experiences through a myriad of careers pathways.</p> <ul style="list-style-type: none"> • Sheena Spencer, <i>University of Alberta Hydrology</i>; Jolee Gillies, <i>Town of Devon</i>; Crystal Eggert, <i>NAIT Water & Wastewater Program</i>; Simon Thomas, <i>EPCOR</i>; Laura Stolte, <i>Learning Clicks</i>; Jennifer Caudron, <i>Alberta Riparian Habitat Management Society</i>; James Guidon, <i>Ducks Unlimited Canada</i> 	<p>Research in Action Lab Tours – School of Public Health, University of Alberta</p> <ul style="list-style-type: none"> • Invasive Species • Public Health and Water Quality (Swimmers Itch) <p>A chance to discuss water and climate careers of the future and the role of science, technology and innovation.</p>
<p>Field Experience and Case Study - The North SK River</p> <ul style="list-style-type: none"> • Edmonton’s Accidental Beach/Water Monitoring and Citizen Science - North Saskatchewan River Keepers • A brewing industry that cares about water - AlleyKat Brewing 	<p>Water Treatment Plant Tour - EPCOR Goldbar Wastewater Treatment Plan A day-in-the-life experience while learning about the important work of ensuring safe clean water/wastewater.</p>

PROGRAM FEATURES



Diverse Speakers



Showcasing Technology



Behind-the-Scenes Tours



Professional Networking

“ This PD opportunity was critical in helping to further understand employment opportunities, trends and post-secondary requirements in the water sector.” - Don Middleton, Calgary Board of Education

Participants

- Alana Process, Inner City High School, Edmonton
- Jodi Peat, Colonel Irvine School Calgary
- Don Middleton, Calgary Board of Education, Calgary
- Jaymie Reinhart, Our Lady of Mount Pleasant School, Camrose
- Katie Kuiper, Rundle School, Calgary
- Kevin Bauman, Peace River High School, Peace River
- Michelle Savoie, Eleanor Hall School, Clyde
- Carter Cox, Centennial High School, Calgary
- Miriam Prins, Wetaskiwin Composite High School, Wetaskiwin
- Teresa Rieger, St. Albert Catholic High School, St. Albert
- Paul Oberhauser, St. Matthew School, Calgary
- Bill Van Der Weide, Calvin Christian School, Coalhurst
- Peggy Townsend, Crescent Heights High School, Calgary
- Scott Smith, Lillian Osborne High School, Edmonton
- Stacy DeVos, Consort School, Consort

Partners

We would like to extend our gratitude to our program partners for their commitment to high quality, meaningful teacher professional development. Inside Education also appreciates the in-kind support provided by all of the expert guests, speakers and tour hosts who dedicated their time and enthusiasm to the program.



Impact and Feedback

Inside Education is excited to share the outstanding feedback received from teachers following the 2017 **Water and Climate Careers**

**Program Reach of
1500+ Alberta Students**

Program. The results below reaffirm Inside Education’s approach to experiential professional development programs as an effective way to increase understanding of natural resource development and associated careers in Alberta while supporting teachers in bringing the content to the classroom.

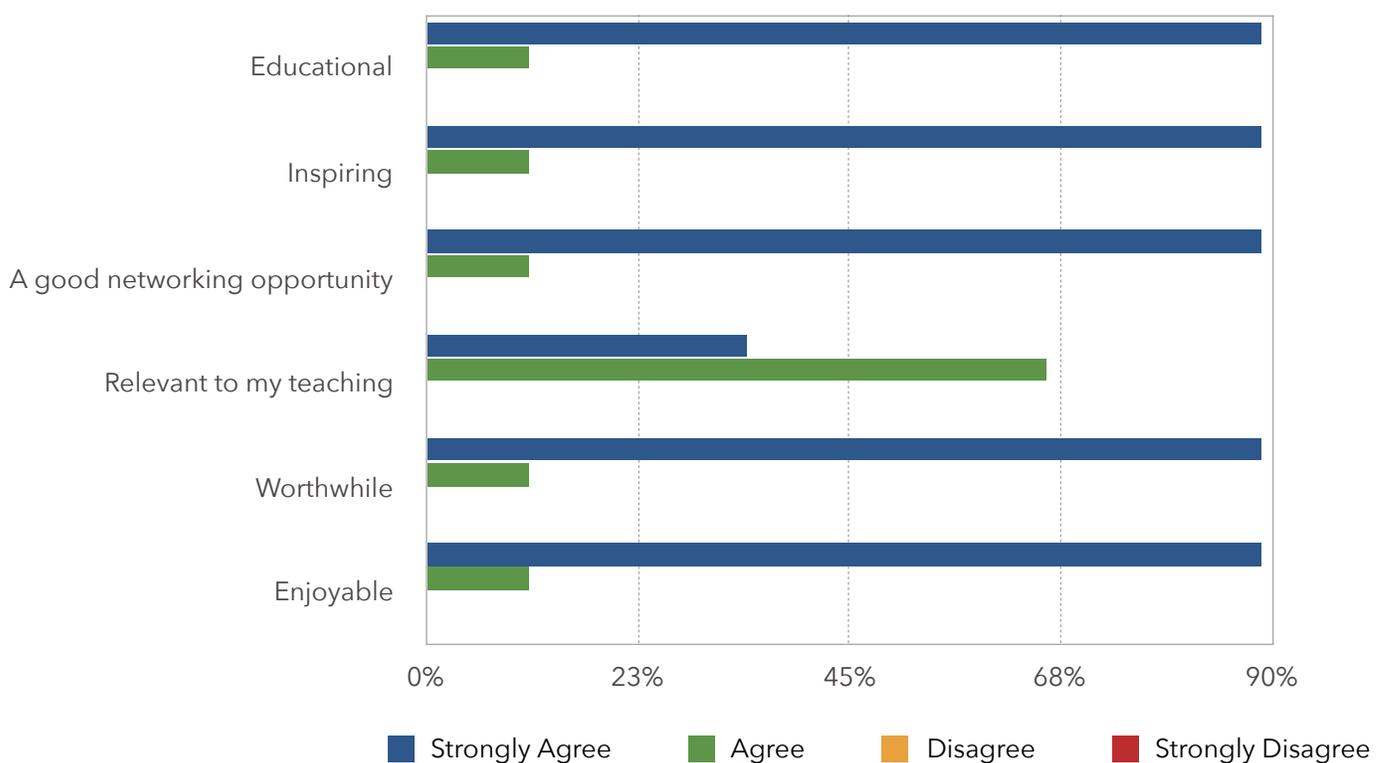
Participant evaluations demonstrated that program objectives were met and exceeded, and teachers found the program valuable to their work. Career practitioners in attendance expanded their understanding of the wide variety of careers related - directly and indirectly - to water and climate, as well as their availability, compensation and training requirements.

100% of participants would recommend Inside Education programs to colleagues

The water and climate careers program gives teachers confidence in bringing Alberta-relevant material to their students and provides

“As a non-enrolling career facilitator, I am able to steer students toward specific water-related careers that I previously might not have.” - Teresa Rieger, St. Albert Catholic High School

In my opinion, the 2017 Water and Climate Careers Program was:



Classroom Connections

"I will inform students of the career opportunities available in the water sector and that you can start either with a large amount of post-secondary education or there are also ways to work up within a company." - Jaymie Reinhart

"I have added some of the information to my parent information evening. I plan to hold a flex session on careers in water in the near future." - Teresa Rieger



"We are looking to partner with NAIT to offer a dual credit Water/Wastewater program to CBE students." - Don Middleton

"I have already spoken to other teachers I work with about some of the concepts we went over in our course, specifically about including incorporating research and technology stories into lessons." - Alana Procee

"The two day program was so well organized, and delivered, from; timing, relevance, usefulness, meals, and a great combination of lecture, group discussions, and experiential hands on activities based around the community of water - Carter Cox, Centennial High School, Calgary

100 % of participants indicated the program offered them information and experiences that they could not access

Summary & Futures

The Water and Climate Careers Program was a success thanks to the commitment of our partners, enthusiasm of the highly dedicated teacher participants and the contributions of the time and expertise of the speakers and tour hosts. It is evident from the feedback above that this type of programming is a highly valued professional development opportunity for educators across the province. Inside Education recognizes an ongoing need for high quality, accessible teacher professional development programs to advance water and climate change education in Alberta. With this, we are committed to including annual career focused teacher professional development alongside our comprehensive suite of programs and learning materials.



Teacher Professional Development
Classroom and Field Student Programs
Youth Education Summits
Learning Materials

“Inside Education PD's in Careers have always exceeded my expectations.” - Bill Van Der Weide

For more information about this and other Inside Education programs contact:
Inside Education 1-888-421-1497 info@insideeducation.ca www.insideeducation.ca



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