

Inside Education

Careers in Environmental Technologies Education Tour

April 17-18, 2012
Edmonton

Teachers explore petroleum engineering programs at the University of Alberta, Edmonton



Summary Report

Career counselors, CTS and CALM teachers from across Alberta, were invited to participate in Inside Education's 2012 Careers in Environmental Technologies professional development program in Edmonton, AB.

The aim of this one day program was to profile a wide variety of career options in environmental technologies that promote the sustainable management of

Alberta's natural resources and environment.

Teachers explored emerging career trends, connected with a variety of professionals, discovered unique post secondary options and participated in a behind the scenes tour of NAIT's Alternative Energy Centre and UofA's petroleum labs. All this packed into one day to showcase one of Alberta's fastest growing employment opportunities.

In this report:

highlights	2
program partners	3
evaluation	4
detailed itinerary	5



Inside Education hosts Kathryn Wagner and Alex O'Rourke were excited to welcome participants, introduce the program and set the tone for an exciting day of guest speakers and tours.

The Program

Trends in Careers

What defines the environmental sector and an environmental practitioner? What are the trends and emerging occupations?



Teachers explored environmental and natural resource education coupled with career awareness with ECO Canada.

Panel of Professionals

Professionals in environmental technology were invited to share insights from the field.



Panelists included:

Amanda Martens, Hydro Technician;
Cam Rollins, WorkWild;
Kris Hodgson, Wind Energy Community Liaison;
Rob Harlan; Solar Energy Society of Alberta

Tour of Alternative Energy Centre, NAIT

Ever imagined what a solar, geothermal, hydro and wind energy lab would look like?

The Alternative Energy Centre provides opportunities for students to learn about leading edge renewable technologies.



Tour of Petroleum Labs, U of A



Behind the scenes look at drilling, reservoir and production engineering labs.

"This was great as it was completely different than I imagined the Engineering department to look like!"

-Karen Knull

Inside Education appreciates the generous support of all program Partners. A special thank you to our presenters and session hosts for sharing their time and expertise.

Careers in Environmental Technologies Education Tour



presented by:



Participants:

15 Participants

9 Communities

12 Schools

Pat Baker, Harry Ainlay High School, Edmonton AB

Jennifer Conroy, Erminskin Junior Senior High, Hobbema AB

Janet Fedorvich, Alexis Nakota Sioux Nation School, Glenevis AB

Lori Irvine, Lindsay Thurber Comprehensive High School, Red Deer AB

Rosemarie Humniski, Austin O'Brien High School, Edmonton AB

Roger Jorgenson, Edmonton Islamic Academy, Edmonton AB

Karen Knoll, *Aboriginal Youth in Schools Transition Project*, O'Chiese and Sunchild First Nations, Red Deer AB

Helen Krol, Edmonton Christian High School, Edmonton AB

Bernadette McMechan, Concordia University College of Alberta, Edmonton AB

Amanda Merriman, Ecole Queen Elizabeth Junior High School, Wetaskiwin AB

Louis Perreault, Trochu Valley Outreach, Trochu AB

Dale Poon, Harry Ainlay High School, Edmonton AB

Teresa Rieger, St. Albert Catholic High School, St. Albert AB

Rahim Sajjan, Discovering Choices High School, Calgary AB

Jeremy Smith, University of Calgary, Calgary AB

Teachers participate in hands-on demos at the NAIT water labs.



What teachers had to say:

"Nice variety and highlights of Alberta programs."

Helen Krol, Edmonton Christian High School, Edmonton

"Interesting perspectives from each speaker; I appreciated the youthful exuberance of the young speakers and the informed, seasoned opinions of the older speakers."

Lori Irvine, Lindsay Thurber Comprehensive High School, Red Deer

"Fantastic to hear what recent grads are doing and how they got there."

Teresa Rieger, St. Albert Catholic High School, St. Albert

"Really enjoyed listening to the speakers in the classroom at NAIT and the two labs. It was great to learn about careers that only require a year or two of study to complete. The technology was fascinating!"

Karen Knull, Aboriginal Youth in Schools Transition Project, O'Chiese and Sunchild First Nations

Evaluation

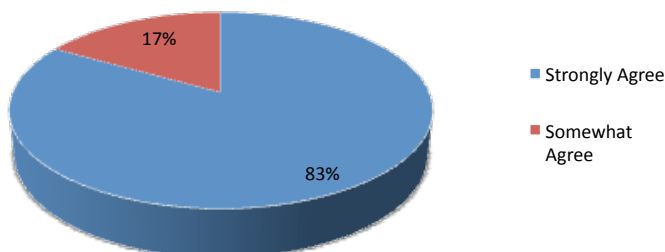
Overall the 2012 Careers in Environmental Technologies Program was a success. Inside Education is confident that teachers can build upon and share experiences with their students a diversity of insights into careers and emerging trends in environmental technologies.

100% of survey respondents strongly agreed that:

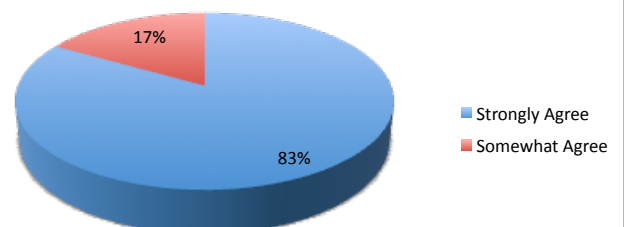
This education program increased my appreciation for the diversity of careers in environmental technologies.

100% of respondents strongly agreed that: The program was an overall high value PD opportunity.

This education tour reflected various trends emergin in careers in the sustainable management of Alberta's natural resources



This education tour will enhance my teaching and help me to provide informative, accurate, and high quality learning experiences for my students.



Careers in Environmental Technologies
Professional Development Program
April 18, 2012

WEDNESDAY, APRIL 18

7:30 - 8:30am *Breakfast & Registration*

Welcome and Introductory Workshop

Presenter: Inside Education

This opening session will set the stage for this short but dynamic program. Here you will be introduced to Inside Education, the program and to each other!

Trends in Environmental and Natural Resource Careers

Presenter: Rebecca Dickson, ECO Canada

How do renewable energy, green technology and environmental sustainability translate into a meaningful career for your students? ECO Canada is a great resource that bridges environmental education and career awareness. Rebecca will discuss what defines the environmental sector, and an environmental practitioner, along with trends and emerging occupations.

Break

Careers in Environmental Technologies Panel

Guests:

Amanda Martens, Hydro-technician, Southern Rockies Watershed Project

Cam Rollins, Forest Industry Liaison, WorkWild

Kris Hodgson, Wind Energy Community Liaison, International Wind Energy Academy

Rob Harlan, Solar Energy Society of Alberta

This is your chance to hear from environmental professionals themselves. Each panelist will discuss their role, the education and experiences that led them there and share any insights they have in their sector. The panel will close with a roundtable discussion and questions.

University of Alberta - Petroleum Engineering Tour

Visit the U of A for inside look at research and innovation. See what the students are doing to advance their career in the energy sector and put their mark on sustainable resource development.

NAIT Environmental Technology Program and Tours

Host: Don Stewart, High School Partnership Coordinator

This is your chance to see NAIT's newest facilities and hear about their unique programs focused on renewable energy technology. Wind turbines, Geothermal heat pumps, PV panel systems and more – Alberta's energy future can be trained here!

Tour – Water and Waste Water Laboratory

Host: Silvie Forest, Biological Sciences, NAIT

Tour – Alternative Energy Laboratory

Host: Jim Sandercock, Chair Alternative Energy Technology, NAIT

4:00 Program Debrief and Wrap-Up

