

# Biosphère

Environment Museum

2010-2011

**EDUCATIONAL PROGRAM**



Free environmental education  
and training activities for  
official-language minority communities

[www.ec.gc.ca/biosphere](http://www.ec.gc.ca/biosphere)



Environment  
Canada

Environnement  
Canada

Canada

## EDUCATIONAL PROGRAM

### School year 2010-2011

The Biosphère, Environment Museum, is pleased to present its Educational Program for the 2010–2011 school year for English-language minority communities. The program offers a variety of free educational activities adapted to the needs and interests of high school students and educators across Canada. These activities link the worlds of science and technology, and explore environmental themes such as air, water, climate change, responsible consumption and biodiversity.



The Biosphère offers numerous educational products for a diverse clientele and is a renowned forum for exchanges on the environment. As part of its national mandate, the Biosphère helps raise awareness about environmental protection among thousands of Canadian students by means of videoconferences and in-school presentations. It also develops partnerships with governmental and non-governmental organizations and provides training for educators and environmental stakeholders in all regions of the country.

The Government of Canada is committed to encouraging linguistic duality among all Canadians. Its goal is to support the cultural vitality of communities by emphasizing the value of increased knowledge of both the English and French languages. In line with this approach, Environment Canada's Biosphère subscribes to government objectives of improving access to services for official-language minority communities, notably young people.

The Biosphère also offers you a variety of BioKits, such as the *Urban BioKit* and the *Nature BioKit*. These tools for self-directed discovery of biodiversity are available as PDFs by going on our website at [www.ec.gc.ca/biosphere](http://www.ec.gc.ca/biosphere).



## Biosphère

Environment Museum  
Musée de l'environnement



## ABOUT THE BIOSPHÈRE

Architectural symbol of Expo 67, the Biosphère is a unique structure, located in Montréal in Parc Jean-Drapeau. As the only environment museum in North America, the Biosphère's mandate is to raise awareness as well as to encourage citizens to take action and get involved in environmental issues. In addition to its general public programming and special events, the Biosphère has developed in the last 15 years educational and awareness-raising products for a diverse clientele across Canada and is a recognized clearinghouse for environmental information.



# THE BIOSPHÈRE AT YOUR SCHOOL!

The Biosphère offers, all across Canada, five free thematic presentations by videoconference or on site at your school.

All presentations are:

- 60 minutes long
- from Monday to Friday
- for participants 12 years and older



## Videoconferences

Offered to high school students from coast to coast, these activities link the worlds of science and technology. In an informal setting, an expert facilitator explores an environmental theme of your choice.



## Technical requirements for videoconferences

- . Groups of 10 or more.
- . It is possible to connect several schools across Canada at the same time to encourage discussion among young people from various cities, provinces or territories.
- . Required equipment: Videoconference equipment (Tandberg or Polycom) and high-speed Internet. Skype, NetMeeting or MSN IM are not accepted.





**A CHANGE IN THE AIR** fosters discussion about the very latest scientific information on climate change, its impacts on the environment and what we can do about it.

**Theme: Climate change**



**ONE WORLD, ONE PLANET!** sheds light on our consumption and its impacts, examining the life cycle of products and our ecological footprint. With an expert facilitator, students develop a critical mindset with respect to consumption and learn to reduce its effects on our planetary ecosystem.

**Theme: Responsible consumption**



**VARIETY IS THE SPICE OF LIFE!** helps students understand the importance of biodiversity and the pressures we exert on the natural environment. With an expert facilitator, students discuss biodiversity and how to preserve it.

**Theme: Biodiversity**



**A BREATH OF CLEAN AIR** will help young people understand smog and acid rain phenomena. With an expert facilitator, participants will discuss human activities and meteorological factors that cause those phenomena and formulate concrete actions they can take to limit them.

**Theme: Air quality and pollution**



**DROP BY DROP** helps students understand how water moves and transforms itself, how it becomes less abundant and the importance of protecting it. Students discuss with an expert facilitator the impacts of human activities on water and the actions they can take to limit those impacts.

**Theme: Water**

### Information and Reservations

Tel.: 514-496-8282,

1-866-487-8282 (toll-free)

Email: [edl-edc.biosphere@ec.gc.ca](mailto:edl-edc.biosphere@ec.gc.ca)

# THE BIOSPHÈRE AT YOUR SCHOOL!

## Conferences at School

This year, conferences at school are available, upon request, in the Montréal region and at specific dates in many other Canadian cities.



## Technical requirements for conferences at school

- . Groups of 90 or more.
- . Required equipment: A PC computer with Windows PowerPoint 2003 (or more recent) as well as a projector and microphone.





Ottawa (Ont.) and Gatineau (Que.): October 25 to 29, 2010  
Vancouver, Kamloops and Kelowna (B.C.): November 15 to 19, 2010  
North Bay, Sudbury and Sault Ste. Marie (Ont.): November 29 to  
December 3, 2010

Montréal and Sherbrooke (Que.): February 7 to 11, 2011

Winnipeg (Man.): March 7 to 11, 2011

Prince Edward Island: April 4 to 8, 2011

Southern Nova Scotia: May 2 to 6, 2011



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# TEACHER TRAINING WORKSHOPS

## Environment 101

**Target audience: High school teachers and educational advisors (15 to 25 participants)**

**Duration: 3.5 hours per topic (maximum of two topics per day)**

➤ These four workshops (on energy, climate change, water and forests) address major environmental issues. Each workshop aims to inform participants about an issue, while giving them the opportunity to experiment with environmental education strategies. The workshops also introduce pedagogical resources to help integrate environmental concepts into the high school curriculum.





## **Environmental Education and Engagement: Fundamentals and Practice**

**Target audience: Elementary and high school teachers (15 to 25 participants)**

**Duration: One to two days**

➤ How can we get youth and the community to make a commitment in favour of the environment? This workshop introduces educators to the concepts and principles of environmental education and engagement. Participants taking the two-day course will have the opportunity to develop an educational project on the environment that they can then carry out in their school or community.

## **Environmental Education and Experiential Learning Strategies**

**Target audience: Elementary and high school teachers and educational advisors (15 to 25 participants)**

**Duration: Two days in person or three 90-minute online sessions, which may be followed by one day of practical training**

➤ This workshop introduces different learning strategies to help create environmental projects for youth. Participants have the opportunity to become familiar with existing experiential learning programs. They will receive handouts containing useful tips on how to put the various strategies into practice. This training is offered by Moncton University's Groupe de recherche Littoral et vie and the Groupe d'éducation et d'écosurveillance de l'eau (G3E) with the support of the Biosphère. Fees apply. For more information: [www.pjse.ca](http://www.pjse.ca).

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# RESOURCES FOR EDUCATORS!



To find free educational resources, supporting resources or the teaching resources listed below, please visit Environment Canada's Educators website:

[www.ec.gc.ca/educators](http://www.ec.gc.ca/educators)

## AGES

### CLEAN AIR / CLIMATE CHANGE

Acid Rain - *Supplementary resources*

5-8 9-12 13-15 16-18

A Change in the Air: videoconferences and conferences at school  
*Supplementary resources*

Science and impacts of climate change graphic presentation  
*Supplementary resources*

### NATURE / WILDLIFE

Species At Risk in Atlantic Canada - *Supplementary resources*

Species At Risk in Canada - *Supplementary resources*

Pedagogical posters on wetlands and biodiversity - *Lesson plans & teachers' guides*

### WEATHER

Project Atmosphere Canada - *Lesson plans & teachers' guides*

Sky Watchers - *Programs*

All About Hurricanes - *Supplementary resources*

Wind Chill - *Supplementary resources*

	5-8	9-12	13-15	16-18
Acid Rain - <i>Supplementary resources</i>	●	●	●	
A Change in the Air: videoconferences and conferences at school <i>Supplementary resources</i>			●	●
Science and impacts of climate change graphic presentation <i>Supplementary resources</i>				●
Species At Risk in Atlantic Canada - <i>Supplementary resources</i>	●	●		
Species At Risk in Canada - <i>Supplementary resources</i>		●	●	
Pedagogical posters on wetlands and biodiversity - <i>Lesson plans &amp; teachers' guides</i>		●	●	
Project Atmosphere Canada - <i>Lesson plans &amp; teachers' guides</i>			●	●
Sky Watchers - <i>Programs</i>		●	●	
All About Hurricanes - <i>Supplementary resources</i>		●	●	●
Wind Chill - <i>Supplementary resources</i>	●	●	●	●

## WATER

Adopt A River - *Programs*



Did you know? ... Freshwater Facts for Canada & the World  
*Supplementary resources*



Every Drop Counts - *Supplementary resources*



Explore Water with Holly Heron - *Supplementary resources*



From Mountains to the Sea - *Supplementary resources*



Let's Not Take Water for Granted - *Supplementary resources*



Morphie's Great Water Ride Adventure - *Lesson plans & teachers' guides*



A Primer on Fresh Water - *Supplementary resources*



Resource Kit: Kid's WaterFest - *Supplementary resources*



Water & Canada: Preserving Legacy for People & Environment  
*Supplementary resources*



Water Fact Sheets - *Supplementary resources*



Water Heroes - *Lesson plans & teachers' guides*



Water Use Calculator - *Supplementary resources*



## POLLUTION PREVENTION

A Guide for Building an Interactive Pollution Model  
*Supplementary resources*



Lessons in Pollution Prevention - *Lesson plans & teachers' guides*



National Pollutant Release Inventory - *Supplementary resources*



## CONTACT US



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# Biosphère

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