

September 2-3, 2009 EcoSchools Professional Development Sessions—Earth Sciences Building University of Toronto

List of “Marketplace Vendors”

City of Toronto: Water Education

The City of Toronto’s Water Education Team (WET) offers free in-school presentations related to the Ontario Science and Technology curriculum. Focusing on Grades 2 and 8, the presentations are linked to the Matter and Materials and Earth and Space System strands. Contact mcooper@toronto.ca

Green Thumbs Growing Kids' mission is to work with urban children and their families to grow, prepare, and appreciate fresh, nutritious foods, grown in an environmentally sustainable and socially just manner, in hands-on programs. We offer students in grades JK-8 opportunities through school food gardens to explore their environment and link their own experience to curriculum in science, language, math, and the arts. Contact Sunday Harrison kidsgrowing@gmail.com

Cathy’s Crawly Composters is an environmental worm composting business. We supply red wiggler worms, worm composting bins, castings, books and the DVD *Squirm, The Story of Cathy’s Crawly Composters*. We also conduct inspirational classroom workshops and worm birthday parties. Worms convert food scraps and paper into nature’s finest fertilizer. Our goal is to raise awareness about the environment and encourage sustainable practices. We believe that worms are going to play an ever-increasing role in waste management and soil production. CONTACT Cathy Nesbit cathy@cathyscomposters.com

GreenScenezToronto is a video challenge designed to give Toronto's youth an opportunity to express their passion for the environment and inspire Torontonians to live green. Youth in grades 7 through 12 at Toronto schools are invited to submit their idea for a 30-second video on a storyboard; no previous video or filmmaking experience is required. Six winning teams will have the opportunity to work with professional filmmakers at Planet in Focus to turn their great green message into a 30-second video. Winning videos will premiere at the 2010 Green Toronto Awards and be featured on CityTV as well as the Live Green Toronto website at livegreentoronto.ca for all of Toronto to see. Contact Jeff McCormick kmccorm@toronto.ca

Who Is GREEN? and **Who Is NOBODY?** are classroom-based kits for Grades 1 - 12 that support students in making a difference in their own personal way. By following simple steps, students experience the impact of their unique strengths and build respect based on something EVERYBODY has—interests and abilities.

This EASY and FUN program is self-running and reusable. NO Workshop and NO Teacher Preparation is necessary! Both Programs support ALL Curriculum from Grades 1 - 12, Inner-city to Rural, Special Needs to Gifted and ESL. Also available in French. Contact Kelly Clark info@whoisnobody.com

Jane Goodall - Roots & Shoots is the Jane Goodall Institute's global network of youth taking action to make the world a better place for people, animals, and the environment. The program is guided by the founding principles and extraordinary vision of Dr. Jane Goodall and is dedicated to inspiring and fostering young leaders. Roots & Shoots provides resources, training, and support to empower Canadian youth to learn about local and global issues and get involved in their communities. CONTACT Abner Lico abner@janegoodall.ca

Future Watch is a climate change initiative that builds in FutureWatch's unique community-based environmental model that seeks to enhance awareness and knowledge about negative effects of our ecological footprint, and translate it into concrete actions to ameliorate negative environmental effects at the local level. In the end we hope to reach our goal: to achieve a reduction in school, community agency, and household energy consumption, and waste production by 10% by March 31, 2011.

FutureWatch facilitates communities of diverse people working together to discover their shared goals, value themselves, their social fabric, and the environment, thus creating healthy and sustainable societies. FutureWatch partners with community leaders and groups, both domestically and abroad, to collaborate on grassroots-based projects focusing on sustainable environmental, cultural, and economic development. Contact Lidia Ferreira lidiaf@futurewatch.net

Kortright Centre Education programs

For more than two decades, teachers have been bringing their classes to the Kortright Centre to experience nature and learn about sustainable living practises and renewable energy. Kortright has 230 hectares of spectacular natural habitats including forest, field, streams, and wetlands which are ideal for studying a variety of environmental topics.

The Centre also has one of the largest demonstrations of renewable technologies in Canada including the new Archetype Sustainable House. It practices hands-on, experiential education which ensures a more meaningful learning experience for students. Open 12 months of the year, the Kortright Centre offers a wide variety of curriculum connected programs during each season. Please check the website for further details at www.kortright.org. Contact Natalie Zalkind nzalkind@trca.on.ca

Citizens' Environment Watch (CEW) provides teachers and students with environmental, participatory learning opportunities to engage them in their local environment. In particular, CEW offers two programs. (1) **Wattwise** teaches students about energy consumption and conservation. Through the program, students conduct an energy audit of their school (and the appliances therein) and create an energy conservation plan to implement with support from CEW staff. (2) **Changing Currents** connects participants to their local watershed. Through free lesson-plans and a hands-on field trip led by CEW staff, students learn to monitor their local river/stream and come to preliminary conclusions about its quality. CEW also provides support and resources to empower teachers and students to take action about their findings. Contact Paul Tucker paul@citizensenvironmentwatch.org

The Ontario Society for Environmental Education (OSEE) is a non-profit volunteer organization whose members include teachers, outdoor educators, and others dedicated to the promotion and improvement of environmental education. OSEE's activities include publishing *Interactions: The Ontario Journal of Environmental Education*, holding an annual spring conference for environmental educators, maintaining the web site www.osee.org, participating in curriculum development, and advocating for environmental education. We welcome your participation and look forward to working with you.

Elementary only

The Elementary Teachers of Toronto Environmental Committee meets monthly at the ETT office. The committee strives to increase environmental awareness among teachers and students, and encourages teachers to promote environmentally friendly practices with students. Contact Ellen Murray ellen1.murray1@gmail.com

Earth Rangers is an innovative charitable organization with a mission to inspire kids with a lasting passion to build a better future—a green future in which today's children are transformed from being the chief inheritors of environmental destruction into a powerful and determined part of the solution. Earth Rangers delivers engaging, curriculum-linked environmental programming to students in Grades 1–8. Full multimedia presentations explore environmental concepts such as water quality, energy conservation, and smart consumerism—all in an interactive and imaginative way that inspire students to take action! Contact Sue Kupka skupka@earthrangers.com or Vicky An van@earthrangers.com

HSBC Clean Air Achievers (CAA) program for Grades 6-9. CAA is a curriculum-based program of Clean Air Champions that explores transportation choices and their impact on air quality, climate change, and health. Students use a sophisticated website to enter travel trips which calculates the greenhouse gas emissions they have prevented when they choose more sustainable modes of

travel. Best of all, our Champions, National team, Olympic and Paralympic athletes are available to deliver two inspirational presentations to your class.

Brad Bass PhD, University of Toronto. An Introduction to Complexity and Environmental Adaptation: exploring the linkages through simulation

The Adaptation & Impacts Research Division (AIRD) is an Environment Canada Research group located on several university campuses across Canada. With a mandate to provide Canadians with information and tools to act on decisions about climate change, particularly adaptation, AIRD research integrates both science and social science with new policy issues that are being driven by climate change. At the University of Toronto, AIRD is located in the Centre for Environment. It is known for its work in Green Roofs & Walls, Breathing Walls, Energy Systems, Climate Change Scenarios (cccsn.ca) and the COBWEB simulation model (cobweb.ca)

Since 2005, AIRD has been offering workshops to elementary school students (grades 4 to 8) on complexity and adaptation, both through the formal school setting and through the Mini-University Program, a program of Camp U of T. The goal of the workshop is to introduce the concept of adaptation within the context of climate change using a visual and interactive computer simulation model called COBWEB (Complexity and Organized Behaviour Within Environmental Bounds) that was developed to study complexity and how complex systems might adapt to environmental change.

The workshops allow the students to run computer simulations and use other interactive activities to reinforce a few concepts that focus on complexity and adaptation. It is an excellent preparation for the follow-up workshop offered to secondary students on Climate Change, Health, and Adaptation. The workshop can also be used to introduce students to ecological experiments and the use of Excel. By the end of the workshop, the students will understand why adaptation is important, and how it can go right or wrong. Contact Brad Bass Brad.@ec.gc.ca

Secondary only

The High School Climate Challenge (HSCC) is a joint program of Clean Air Champions (CAC) and Sierra Youth Coalition (SYC) for high school students (Grades 9-12). The main purpose of HSCC is to educate, inspire, and engage youth leaders to conduct audits at their schools with the goal of significantly reducing institutional greenhouse gas emissions (GHG).

Students use an online, automated GHG calculator that produces useable data on GHG emissions and reductions. Clean Air Champions, top national teams, Olympic and Paralympic athletes, are HSCC ambassadors and incorporate the project themes into a powerful message that includes personal stories and issues

related to air quality, climate change, and health. Students are also supported by university student mentors experienced in conducting campus audits.

Brad Bass PhD, University of Toronto. Climate Change, Health, and Adaptation: exploring the linkages through simulation

The goal of this curriculum package is to introduce the students to the study of climate change impacts and adaptation through the lens of health using a computer simulation model, interactive activities, and readings. The students will gain an understanding of the climate change and health connections, the need for adaptation, and policy implementation. The curriculum package also includes work in systems science, optional final projects, and the COBWEB software, a visual simulation model that was developed to study complexity and how complex systems might adapt to environmental change.

The intent of this curriculum resource is to provide an educational experience that involves interactive activities and computer simulation. In addition to providing the students with an introduction to the study of climate change impacts and adaptation through a health lens, the students will also learn new skills and will have access to new tools (e.g., COBWEB) that can be used for other projects in high school or university. This package meets curriculum requirements in Grade 10 Science, Grade 11 Geography and Grade 12 Geography. The software can also be adapted to meet requirements in Grade 11 & 12 Biology. This curriculum package was developed by AIRD in collaboration with the TDSB.

Adaptation & Impacts Research Division (AIRD) is an Environment Canada Research group located on several university campuses across Canada. With a mandate to provide Canadians with information and tools to support decisions on climate change, particularly adaptation, AIRD research integrates both science and social science with new policy issues that are being driven by climate change. Located in the Centre for the Environment at the U of T, this AIRD group is known for its work in Green Roofs & Walls, Breathing Walls, Energy Systems, Climate Change Scenarios (ccsn.ca) and the COBWEB simulation model (cobweb.ca). AIRD provides opportunities for students in Grades 11 and 12 to participate in research through the University of Toronto's High School Mentorship Program. Contact Brad Bass Brad.@ec.gc.ca