



National Science and Technology Week 2009 at the Canada Science and Technology Museum

Register for one of our exciting presentations celebrating science and technology in Canada! The perfect opportunity for students in grades 9 and up to explore potential careers in science fields and to supplement their science curricula!

This year's presentations include:

- **The Cars of Tomorrow...**
- **Playing Pool Against a Robot**
- **What's "Bugging Your Bugs"?**
- **WANTED: HQP! (Highly Qualified People!)**

**Only \$3.00
per student**

Take part!

Let our scavenger hunts guide you through the Museum! Discover special stories and artifacts from Canada's past. Submit your ballot for the chance to win iTunes™ Gift Cards.

While at the Museum, take the opportunity to explore our new exhibit "Wheels, Wings and Waves—A LEGO® History of Transportation".

Each presentation is approximately 45 minutes in length. Please complete and return the enclosed registration form by
October 14, 2009

Book early to avoid disappointment!

613-991-3053

Toll free: 1-866-442-4416

CANADA SCIENCE AND TECHNOLOGY MUSEUM
MUSÉE DES SCIENCES ET DE LA TECHNOLOGIE DU CANADA

Canada

Science and Technology Lecture Series

All presentations are described in the language of their delivery

Tuesday October 20th, 2009

10 a.m.

How to overcome disease with “sweetness”: The therapeutic use of sugars – Rob Pon

Can a spoon full of sugar do more than just help the medicine go down? Learn how scientists at the National Research Council of Canada are manipulating sugars to fight against invading bacteria and kill cancer cells- all using the forces of your own immune system.

National Research Council

Rôle de la gestion du carbone dans la lutte contre les changements climatiques – Milenka Mitrovic

Participez à cette présentation interactive et découvrez le processus de production de l'énergie électrique, à partir de l'exploitation des mines de charbon jusqu'à la production d'émissions. Apprenez en quoi les technologies de capture et de stockage constituent des avenues prometteuses pour la réduction des émissions de CO₂.

Ressources naturelles Canada

11 a.m.

The Cars of Tomorrow ...What You will be Driving in Five Years - Ryan Klomp

Explore the future of the automobile. Discover how the ecoTECHNOLOGY for Vehicles (eTV) program is working with manufacturers as they develop the next generation of “green” cars. Learn more about the cars you will see on Canadian roads in the next five years, including plug-in hybrids, electric and fuel cell vehicles.

Transport Canada's ecoTECHNOLOGY for Vehicles (eTV) program

La vérité sur la représentation des sciences au cinéma — Ann Therriault

Il ne faut pas croire tout ce que l'on voit au cinéma, surtout s'il s'agit d'un film catastrophe. Découvrez comment le film *Voyage au centre de la Terre* n'est peut-être pas aussi réaliste que vous le pensiez sur le plan scientifique.

Natural Resources Canada

12:30 p.m.

Playing Pool Against a Robot – Dr. Michael Greenspan

Ever think you could play pool against a robot? Meet Deep Green™, an Intelligent Robotic System being developed to compete against humans at the game of pool. Learn all about the background research, design decisions and experiment results that have led to the creation of this amazing robot.

Department of Electrical and Computer Engineering, Queen's University

Clean Energy – From Oil Sands to Exhaust Pipe – Dr. Heather Dettman

You may not think about it...you just hop in the car and go. As long as we use combustion engines in vehicles to move us around, we need transportation fuels. Canada may have the answer to our fuel needs - the oil sands. Learn about environmental issues and potential technology solutions for getting this oil from "sand to gas tank".

Natural Resources Canada

Science and Technology Lecture Series

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Wednesday October 21st, 2009

10 a.m.

Science to the People: Science and Social Media – Richard Akerman

Science does not belong solely to scientists. You can be a citizen scientist! Ordinary citizens have a huge stake in science and technology. Discover how the Internet and social media are enabling a rise of “citizen science”, a movement that recognizes the contribution that concerned citizens can make to scientific policy and research.

National Research Council

Changements climatiques et forêts – Catherine Ste-Marie

Trop de pluies dans l'est du pays, sécheresse dans l'ouest, feux de forêts, épidémies d'insectes... Le climat de la terre change rapidement et les forêts doivent y faire face. Venez apprendre quels sont les impacts des changements climatiques sur les forêts et découvrir comment la recherche scientifique nous aide à trouver des solutions.

Ressources naturelles Canada

11 a.m.

WANTED: HQP! (Highly Qualified People!)– Geoff Munro

WANTED: Discoverer of the next new species/Solver of our global energy crisis/Inventor of the cure for cancer. Would you like to fulfill any of these jobs? Does the idea of exploring unlimited possibilities excite you? Science is fun...it's global...it influences major decisions. Discover how science is a part of everyday life, and where it can take you.

Natural Resources Canada

L'automobile de demain : ce que vous conduirez dans cinq ans - Dominique-Pierre Dion

Explorez l'avenir de l'automobile. Découvrez la façon dont le programme **écoTECHNOLOGIE pour véhicules (éTV)** collabore avec les fabricants à l'élaboration de la prochaine génération d'autos « vertes ». Renseignez-vous sur les véhicules qu'on trouvera sur les routes canadiennes au cours des cinq prochaines années, y compris les voitures hybrides rechargeables, électriques et à pile à combustible.

Programme écoTECHNOLOGIE pour véhicules (éTV) de Transports Canada

12:30 p.m.

Operational Oceanography - Marty Taillefer

Meet a former navy oceanographer and discover how real-time oceanographic sciences help naval forces in military objectives. Learn about the operational oceanographic cycle and the concepts of making accurate science decisions to support military decision-making. Hear a wild “salty-dip” (sea-story) of oceanographic analysis in military missions.

Department of Fisheries and Oceans

What's "Bugging Your Bugs"? – Sarah Hall

Who knew bugs could talk! Certain aquatic bugs found in our local streams, known as benthic invertebrates, can tell us a lot about ecosystem health. Discover how scientists from Environment Canada use "bugs" to understand the health of our watersheds and measure impacts on the environment. Have a close-up look at a number of these crazy critters.

Environment Canada

**National Science and Technology Week 2009 at the
Canada Science and Technology Museum
Registration Form**

School Name _____ School Address _____

City _____ Province _____ Postal Code _____

Phone Number (____) _____ Fax Number (____) _____

Teacher's Name _____ Grade _____ Number of Students _____

E-mail Address _____

Estimated Arrival Time _____ Estimated Departure Time _____

Please place a cross in the box next to the lecture(s) you wish to attend and **submit one form per attending class**. The presentation title (below) indicates in which official language it will be offered.

Tuesday October 20th, 2009

10 a.m.

- | |
|--|
| <input type="checkbox"/> How to overcome disease with "sweetness" |
| <input type="checkbox"/> Le carbone dans la lutte contre les changements climatiques |

11 a.m.

- | |
|--|
| <input type="checkbox"/> The Cars of Tomorrow ...What <u>You</u> will be Driving in Five Years |
| <input type="checkbox"/> La vérité sur la représentation des sciences au cinéma |

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|--|
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| <input type="checkbox"/> Clean Energy – From Oil Sands to Exhaust Pipe |

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| <input type="checkbox"/> Science to the People: Science and Social Media |
| <input type="checkbox"/> Changements climatiques et forêts |

11 a.m.

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| <input type="checkbox"/> WANTED: HQP! (Highly Qualified People!) |
| <input type="checkbox"/> L'automobile de demain : ce que <u>vous</u> conduirez dans cinq ans |

12:30 a.m.

- | |
|--|
| <input type="checkbox"/> Operational Oceanography |
| <input type="checkbox"/> What's "Bugging Your Bugs"? |

Cost: \$3.00 per student. Payment is due upon arrival.
Please make cheques payable to the Canada Science and Technology Museum.

**PLEASE SEND YOUR REQUEST BY FAX TO (613) 993-7923
or by mail to:**

Canada Science and Technology Museum
Reservation Office
P.O. Box 9724, Station T
Ottawa, Ontario. K1G 5A3

