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*Your health and  
safety... our priority.*

*Votre santé et votre  
sécurité... notre priorité.*

# 2006 Health Canada **Science**FORUM

*Keeping our "I"s on the Future*



# Program

*October 30–31, 2006*

Canada



# HEALTH CANADA SCIENCE FORUM 2006

*Keeping our "I"s on the Future*

**OCTOBER 30–31, 2006**

*Marriott Hotel  
100 Kent Street  
Ottawa, Ontario*

# Program

## DAY 1

*October 30, 2006*

**7:00 a.m. – 8:00 a.m.**

**Poster Set-Up** (Cartier Salons)

**7:00 a.m. – 8:00 a.m.**

**Registration** (Capital/Carleton Room) **and Continental Breakfast** (Foyer of the Victoria Ballroom)

**8:00 a.m. – 8:45 a.m.**

**Welcome and Opening Remarks** (Victoria Ballroom)

Hélène Goulet, Associate Assistant Deputy Minister, Health Products and Food Branch and Chair of the Health Canada Science Forum 2006

Address by the Chief Scientist, Pierre-Gerlier Forest

The Honourable Tony Clement  
Minister of Health

**8:45 a.m. – 9:45 a.m.**

**Plenary Session: Information** (Victoria Ballroom)

Moderator/Chair: Hélène Goulet, Associate Assistant Deputy Minister, Health Products and Food Branch and Chair of the Health Canada Science Forum 2006

*Cybercartography: A New Form of Information Management, Analysis and Presentation*,  
Dr. D.R. Fraser Taylor, Distinguished Research Professor and Director Geomatics and Cartographic Research Centre Carleton University, Ottawa

*Tobacco Paradox: Is There Ever Too Much Evidence?*, Murray Kaiserman,  
Tobacco Control Programme, HECSB

**9:45 a.m. – 10:15 a.m.**

**Break**

10:15 a.m. – 11:15 a.m. **Concurrent Sessions**

## Session A: Information

### Epidemiology: Building Our Knowledge About Health (Albert Salon)

Chair: Azam Tayabali, Research Scientist, Safe Environments Programme, HECSB

*Exploring the Utilization of Online Health Information: A Canadian Study*, (Abstract 3.74), Susan Zhang, Applied Research and Analysis Directorate, HPB

*Insights from the Canadian Addiction Survey: Public Opinion, Attitudes and Knowledge of Canadians About Alcohol and Other Drugs Issue*, (Abstract 3.54), Stéphane Racine, Office of Research and Surveillance, DSCS, HECSB

*Physician's Production of Primary Care in Ontario: Evidence from the 2004 National Physician Survey, Canada*, (Abstract 3.58), Sisira Sarma, Applied Research and Analysis Directorate, HPB

## Session B: International

### Research Advances in Support of International Environmental Monitoring (York Salon)

Chair: Heather Simmons, Senior Evaluation Officer, Reduced Risk Section, Environmental Assessment Agency, PMRA

*A Measure of Progress in Air Quality Management: Chilean Air Health Indicator*, (Abstract 4.02), Sabit Cakmak, Environmental Health Science Bureau, HECSB

*Monte Carlo Simulations of Semi-Infinite Radioactive Clouds of Ar-41 & Xe-133*, (Abstract 4.03), Trevor Stocki, Radiation Protection Bureau, HECSB

*Risk of Occupational Exposure to Ionizing Radiation Among Medical Workers in Canada*, (Abstract 3.48), Jan Zielinski, Safe Environments Programme, HECSB

## Session C: Integration

### Guiding Policy Development and Research Needs Through Resource Integration (Wellington Salon)

Chair: Kisalaya Basu, Senior Economist, Applied Research and Analysis Directorate, HPB

*Federal Science eLibrary Pilot Project*, (Abstract 2.05), Merle McConnell, Science Library Network, HPFB

*A Micro-Simulation Model to Evaluate Hypothetical Drug Plans*, (Abstract 2.08), Loan Nguyen, Applied Research and Analysis Directorate, HPB

*Climate Change Impacts and Adaptation in First Nations Communities*, (Abstract 2.04), Diane McClymont-Peace, Environmental Research Division, FNIHB

## Session D: Innovation

### Application of Biotechnology Innovations to Toxicological Research

(O'Connor Salon)

Chair: Rémy Aubin, Research Scientist, Biologics and Genetic Therapies Directorate, HPFB

*Testicular Toxicant 2-Methoxyacetic Acid Causes Spermatocyte Apoptosis by Increasing Acetylation of Core Histones*, (Abstract 1.21), Mike Wade, Environmental Health Sciences Bureau, HECSB

*Phthalates in Ottawa Residential House Dust*, (Abstract 1.44), Jiping Zhu, Bureau of Environmental Health Research, HECSB

*Evaluation of Antibody Microarray Technology in Screening for New Biomarkers from In Vitro and In Vivo Bacillus Exposures*, (Abstract 1.34), Kathy Nguyen, Safe Environments Program, HECSB

#### 11:15 a.m. – 12:00 p.m. Distinguished Chief Scientist Guest Lecturer (Victoria Ballroom)

Moderator/Chair: Pierre-Gerlier Forest, Chief Scientist of Health Canada

*"I" is for Imagination and Interdependence: Accelerating the Inevitable Transformation of the Health System in the Age of the Internet*, Dr. Alejandro Jadad, Senior Scientist, Division of Clinical Decision-making & Health Care, Toronto General Research Institute (TGRI)

#### 12:00 p.m. – 1:00 p.m. Lunch

#### 1:00 p.m. – 2:00 p.m. Plenary Session: International (Victoria Ballroom)

Moderator/Chair: Stéphane Lessard, Director, Health Research Secretariat, Office of the Chief Scientist

*Building Transdisciplinary Capacity to Respond to Global Health Challenges: The Healthcare Sector and Beyond*, Dr. Annalee Yassi, Professor, Institute of Health Promotion Research, University of British Columbia

*International Health and Science: Opportunities and Challenges*, Jennifer Rae and Nick Previsich, International Affairs Directorate, HPB

#### 2:00 p.m. – 2:45 p.m. Panel Discussion (in Victoria Ballroom)

Moderator/Chair: Anil Gupta, Director, Microsimulation Modelling and Data Analysis, Applied Research and Analysis Directorate, HPB

*Health Capacity, a New Perspective*, Ian Potter, Assistance Deputy Minister, First Nations and Inuit Health Branch

#### 2:45 p.m. – 3:15 p.m. Break

#### 3:15 p.m. – 4:15 p.m. Poster Sessions (Judging) – View the Posters and Meet the Authors (Cartier Salons)

#### 4:15 p.m. – 5:00 p.m. Networking Session – Meet the Authors (Cartier Salons)

#### 5:00 p.m. Adjournment

- 7:00 a.m. – 8:00 a.m.** **Poster Set-Up** (Cartier Salons)
- 7:00 a.m. – 8:00 a.m.** **Registration** (Capital/Carleton Room) **and Continental Breakfast** (Foyer of the Victoria Ballroom)
- 8:00 a.m. – 8:05 a.m.** **Welcome from the Forum Chair** (Victoria Ballroom)  
Hélène Goulet, Associate Assistant Deputy Minister, Health Products and Food Branch and Chair of the Health Canada Science Forum 2006
- 8:05 a.m. – 8:15 a.m.** Science Advisory Board Members - Introductions
- 8:15 a.m. – 9:15 a.m.** **Plenary Session: Integration** (Victoria Ballroom)  
Moderator/Chair: Sari Tudiver, Senior Policy Analyst, Bureau of Women's Health and Gender Analysis, Policy Planning and Priorities Directorate, HPB  
*Rapidly Evolving Landscape of Health Research in the 21st Century*, Dr. Alan Bernstein, President, Canadian Institutes of Health Research  
*Integration - A Prerequisite for Policy Relevant Evidence*, Mary Bush, Director General, Office of Nutrition Policy and Promotion, HPFD
- 9:15 a.m. – 10:15 a.m.** **Concurrent Sessions**

## Session A: Information

### Exposure Hazards from Environmental Contaminants (Albert Salon)

Chair: Mike Wade, Research Scientist, Safe Environments Program, HECSB

*Personal, Indoor and Outdoor Exposure of Windsor Residents to VOCs in the Winter and Summer of 2005*, (Abstract 3.66), Corinne Stocco, Safe Environments Program, HECSB

*Mutagenic Activation of the Food Contaminant Furan Through Reaction with Sodium Nitrite*, (Abstract 3.60), Tim Schrader, Toxicology Research Division, HPFB

*Environmental Contaminants and Traditional Foods Workshop Focus Groups: Applicability to Qualitative Research?*, (Abstract 3.43), Kathleen Lydon-Hassen, Environmental Research Division, FNIHB, Branch

## Session B: Panel Discussion

### Ethics (York Salon)

Chair: Cornelius von Baeyer, Principal, Workplace Ethics Consultancy

#### Panelists:

Neil Yeates, Assistant Deputy Minister, HPFB

Karen Dodds, Executive Director, Pest Management Regulatory Agency

Dr. Marc Saner, Director, Institute on Governance

## Session C:

### Advances in Food and Drug Research (Wellington Salon)

Chair: Kirsten Mattison, Research Scientist, Bureau of Microbial Hazards, Food Directorate, HPFB

*Sub-Chronic Exposure to Dietary Soy Isoflavones from Two Different Sources Enhances Cell Proliferation, but Reduces Apoptosis in Rat Liver*, (Abstract 1.30), Rekha Mehta, Food Directorate, HPFB

*Reduced Expression of Abcg5/Abcg8 is Associated with Increased Retention of Dietary Plant Sterols and Stanols in Diabetic BB Rats*, (Abstract 1.38), Kylie Scoggan, Nutrition Research Division, HPFB

*Lipid and Fatty Acid Metabolism is Modulated by the Source of Protein in the Diet* (Abstract 1.03), Alfred Aziz, Food Directorate, HPFB

*The Fingerprint Assay: Characterization of Protein-Based Biologics Using 2D Nuclear Magnetic Resonance Spectroscopy*, (Abstract 1.02), Yves Aubin, Biologics and Genetic Therapies Directorate, HPFB

## Session D: Innovation

### Environmental and Bio-Monitoring (O'Connor Salon)

Chair: Erling Rud, Chair, Senior Scientific Advisor, Animal Resources Division, Food Directorate, HPFB

*Effects of Personal Exposure to Particulate Air Pollution on Diabetic Patients—Changes in Cardiovascular System and Biomarkers of Inflammation and Oxidative Stress*, (Abstract 1.29), Ling Liu, Air Health Effects Division, HECSB

*Understanding Bioaccessibility: An Investigation of Metal Speciation in House Dust*, (Abstract 1.36), Pat Rasmussen, Safe Environments Program, HECSB

*A Comprehensive Congener-Specific Analysis of Polybrominated Diphenyl Ethers in Rat Tissues Dosed with Commerical DE-71™*, (Abstract 1.26), Nanqin Li, Environmental and Occupational Toxicology Division, HECSB

**10:15 a.m. – 10:45 a.m. Break**

**10:45 a.m. – 11:45 a.m. Poster Sessions (Judging) – View the Posters and Meet the Authors (Cartier Salons)**

**11:45 a.m. – 12:45 p.m. Lunch**

**12:45 p.m. – 1:30 p.m. Networking Session – Meet the Authors (Cartier Salons)**

**1:30 p.m. – 2:30 p.m. Plenary Session: Innovation (Victoria Ballroom)**

Moderator/Chair: Erling Rud, Senior Scientific Advisor, Animal Resources Division, Food Directorate, HPFB

*From Nanotechnology to Synthetic Biology: What is in Stock for Health Sciences and Research*, Dr. Gregor Wolbring, Biochemist, bioethicist, science and technology ethicist, disability/variability studies scholar, and health policy and science and technology studies researcher at the University of Calgary.

*From Lab to Practice- Research and Tools for Characterization of Microbe-Based Bioproducts and Monitoring their Release into the Environment*, Vern Seligy, Safe Environments Program, HECSB

**2:30 p.m. – 2:45 p.m.**

**Break**

**2:45 p.m. – 4:00 p.m.**

**Excellence in Science**

**Patent Recipient Awards**

**Best Poster Awards Ceremony** (Victoria Ballroom)

**Excellence in Science Winners:**

Moderator/Chair: Wendy Sexsmith, Associate Chief Scientist, Office of the Chief Scientist

*Genomic Changes in Response to Urban and Industrial Pollution,*

Carole Yauk, Most Promising Scientist

Pierre Band, Excellence in Natural Science

*Developing a Ranking for Pesticides' Potential to Contaminate Surface and Ground Water,*

PMRA Group (Peter Delorme), Excellence in Regulatory

**Patent Recipient Awards:**

Moderator/Chair: Arthur Carty, National Science Advisor

Lei Zhang, Assessment Officer, Metabolic and Musculoskeletal Drugs Division,  
HPFB – U.S. – Allergen of Disporium Herbarum

Renaud Vincent, Head, Growth and Development Section, Environment and Occupational  
Toxicology Division, HECSB –

1) U.S. – Respiratory Nose-Only Device and System for Laboratory Animals;

2) U.S. – Hydroxylation of Salicylic Acid Derivatives;

3) C.A. – Respiratory Nose-Only Device and System for Laboratory Animals

Josée Guenette, Professional Engineer, Inhalation Toxicology and Aerobiology Section, HECSB –

1) U.S. – Respiratory Nose-Only Device and System for Laboratory Animals;

2) C.A. – Respiratory Nose-Only Device and System for Laboratory Animals

Premkumari Kumarathanan, Research Scientist, Environment and Occupational Toxicology Division,  
HECSB – U.S. – Hydroxylation of Salicylic Acid Derivatives

Hari M. Vijay, Research Scientist, Inhalation Toxicology and Aerobiology Section, HECSB –  
U.S. – Allergen of Disporium Herbarum

Harold Rode, Chief, Pandemic Influenza Division, Viral Vaccines Division, HPFB – U.S. –  
Allergen of Disporium Herbarum

Donald S. Forsyth, Acting Chief, Food Research Division, HPFB – U.S. – Micro Extraction Technique

Saeed A. Qureshi, Senior Research Scientist, Bureau of Pharmaceutical Sciences, HPFB –

1) U.S. – Low Speed Precision Stirring/Mixing Device;

2) U.S. – Method and Apparatus for Reproducible Dissolution Testing of Pharmaceutical Products

**Best Poster Awards Ceremony**

Moderator/Chair: Pierre-Gerlier Forest, Chief Scientist

**4:00 p.m. – 4:15 p.m.**

**Closing Remarks** (Victoria Ballroom)

Health Canada's Chief Scientist, Dr. Pierre-Gerlier Forest

**4:15 p.m.**

**Adjournment**



