



Canadian
Cancer
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du cancer

EXPLORING THE CONNECTION

> A State of the Science Conference on Pesticides and Cancer

12 + 13 November 2008

> Marriott Yorkville Bloor Hotel > Toronto Canada

www.cancer.ca/pesticidesconference



PROGRAM



It is with great pleasure that I welcome you to *Exploring the Connection: A State of the Science Conference on Pesticides and Cancer*. The Canadian Cancer Society is a leader in bridging science, policy and practice in cancer control. This conference provides a forum to discuss the research, precautionary policies and practices surrounding agricultural and other non-cosmetic uses of pesticides.

The use of pesticides in farming or for health protection reasons is a broad and complex issue and a growing area of interest for many Canadians. There are a wide variety of opinions about pesticides, such as: the risks and benefits as outlined by scientific literature; regulation; reducing reliance on pesticides; and whether human health and the environment are sufficiently protected.

We are entering this conference with an open mind. We are committed to engaging stakeholders, experts and interested individuals as we explore this important issue. Bringing together these people around one table to discuss these issues will further the Society's understanding of the science and policies about pesticides. It will also inform our messaging and potential opportunities for action.

Thank you for joining us at this groundbreaking conference. The Canadian Cancer Society strives to ensure Canadians have the most up to date information on important cancer issues.

Barbara Whylie
Chief Executive Officer
Canadian Cancer Society



On behalf of the Canadian Cancer Society, I am pleased to welcome you to *Exploring the Connection: A State of the Science Conference on Pesticides and Cancer*.

The Canadian Cancer Society is hosting researchers, policy makers, health practitioners and members of the labour force whose lives are impacted by pesticide use, to discuss non-cosmetic use of pesticides and their connection to cancer. Experts from some of the world's most distinguished research organizations will lead informed discussions on this important health issue.

As the trusted voice on cancer for all Canadians, the Canadian Cancer Society continues to strongly advocate for a ban on the cosmetic use of pesticides. However, there is important information to share on the effects, alternatives and regulations of non-cosmetic use of pesticides.

Speaking from the perspective of someone who lives in an agricultural province, I am well aware of the reliance on non-cosmetic pesticides by the Canadian agricultural industry and the impact that these chemicals can have on agricultural workers, our communities and on the food we eat. I am sure that over the next two days we will develop a better understanding about non-cosmetic pesticide use, ways to reduce exposure and what we can do to minimize exposure

Thank you for joining us at this conference and learning with us. I look forward to meeting many of you.

Jimm Simon
Volunteer President
Canadian Cancer Society

THIS CONFERENCE IS ENDORSED BY :



> program at a glance

DAY 1

WEDNESDAY NOVEMBER 12, 2008

7:00 – 8:30 am

> **Breakfast and Registration**

8:30 am

> **Opening Remarks**

8:40 am

SESSION THEME I – OVERVIEW OF PESTICIDE REGULATION AND USE

Connie Moase, Health Canada's Pest Management Regulatory Agency

Robert Charlebois, Food Safety Division, Canadian Food Inspection Agency

10:05 am

> **Health Break**

Angelo Moretto, University of Milano and International Centre for Pesticides and Health Prevention

Gerry Stephenson, University of Guelph

11:30 am

SESSION THEME II – WEIGHING AND EXPRESSING SCIENTIFIC EVIDENCE

Barnett Kramer, U.S. National Institutes of Health

12:00 pm

> **Lunch**

1:00 pm

SESSION THEME III – ADULT EXPOSURE AND CANCER RISK

Aaron Blair, U.S. National Cancer Institute

Mary Ward, U.S. National Cancer Institute

2:00 pm

SESSION THEME IV – CHILDHOOD EXPOSURE AND CANCER RISK

Peggy Reynolds, Northern California Cancer Center

3:00 pm

> **Health Break**

3:30 pm

SESSION THEME V – LEVELS OF PESTICIDE EXPOSURE

Chensheng (Alex) Lu, Harvard School of Public Health

Thea Rawn, Health Canada, Health Products and Food Branch

Vincent Cogliano, International Agency for Research on Cancer

5:10 – 5:30 pm

> **Wrap Up**

DAY 2

THURSDAY NOVEMBER 13, 2008

7:30 am

> **Breakfast**

8:30 am

> **Welcome**

8:45 am

SESSION THEME VI – PESTICIDE EXPOSURE SURVEILLANCE

Douglas Haines, Health Canada, Risk Management Bureau

Bryan Williams, U.S. Centers for Disease Control and Prevention

9:30 am

SESSION THEME VII – PRECAUTIONARY-BASED POLICIES AND PRACTICES FOR REDUCING PESTICIDE EXPOSURE FOR CONSIDERATION IN CANADA

Nathalie Röbbel, WHO Regional Office for Europe

Genon Jensen, Health and Environment Alliance

10:45 am

> **Health Break**

Rex Eaton, WorkSafeBC

12:00 pm

> **Lunch**

Rene Van Acker, University of Guelph

Andrew Hammermeister, Organic Agriculture Centre of Canada

2:15 pm

> **Health Break**

2:30 pm

SESSION VIII – PANEL DISCUSSION ON WHAT WE'VE LEARNED AND WHERE WE GO FROM HERE

Aaron Blair, U.S. National Cancer Institute

Nathalie Röbbel, WHO Regional Office for Europe

Ron Bonnet, Canadian Federation of Agriculture

4:00 – 4:15 pm

> **Closing Remarks**

> notes





7:00 – 8:30 am

> **Breakfast and Registration**

8:30 am

> **Opening Remarks**

Jimm Simon, Canadian Cancer Society
Heather Logan, Canadian Cancer Society

SESSION THEME I – OVERVIEW OF PESTICIDE REGULATION AND USE

8:40 am

1.1 The science of pesticide regulation in Canada

Connie Moase, Health Canada's Pest Management Regulatory Agency

Representatives from PMRA will describe the science review process from the human health perspective, which serves as the basis for determining whether a pesticide is acceptable for registration in Canada. In addition, some frequently asked questions relating to pesticides and human health will be addressed.

9:20 am

1.2 CFIA's National Chemical Residues Monitoring Program for fruits and vegetables

Robert Charlebois, Food Safety Division, Canadian Food Inspection Agency

The presentation will briefly describe the National Chemical Residue Monitoring Program implemented by the CFIA as well as related surveys. The presentation will then present how the work is prioritized and compliance levels and trends, for these commodities, from 1997 to today. The presentation will finally briefly discuss a few of the future activities at the CFIA.

9:45 am

> **Q & A**

10:05 am

> **Health Break**

10:30 am

1.3 Toxicology of pesticides, the science of risk assessments and international standard setting

Angelo Moretto, University of Milano, and International Centre for Pesticides and Health Prevention

Since early 1960s' Food and Agriculture Organization (FAO) and World Health Organization (WHO) convene a yearly Joint FAO/WHO Meeting on Pesticide Residues (JMPR) where a group of independent, internationally recognized experts evaluate the toxicology and the residues of pesticides used in agriculture. JMPR has been, particularly in recent years, at the front of the science of risk assessment of pesticides. Activities and criteria of JMPR to assess risk from pesticide exposure, with particular attention to carcinogenic risk, will be presented and discussed.

10:50 am

1.4 Rationale of pesticide use in agriculture

Gerry Stephenson, University of Guelph, Department of Environmental Biology

Food production competes with biofuel and biofibre production for available land. World population is expected to increase from 6.4 to 9 or 10 billion by mid-century. Will we have the same amount of land for agriculture in 2050 or 2100 as we have today? Integrated pest management, with proper pesticide use, has a better chance than organic farming of meeting world food needs without forcing agriculture to encroach on forestry or sensitive wilderness environments.

11:10 am

> **Q & A**

SESSION THEME II – WEIGHING AND EXPRESSING SCIENTIFIC EVIDENCE

11:30 am

2.1 Weighing and expressing scientific evidence

Barnett Kramer, U.S. National Institutes of Health

The presentation will cover formal methods to determine the strength of evidence surrounding medical or public health interventions or exposures.

11:50 am

> **Q & A**

12:00 pm

> **Lunch**

SESSION THEME III – ADULT EXPOSURE AND CANCER RISK

1:00 pm

3.1 Evidence on adult occupational exposure and cancer risk

Aaron Blair, U.S. National Cancer Institute, Occupational and Environmental Epidemiology Branch

Results from epidemiologic studies of cancer among agricultural populations and pesticides applicators will be reviewed to provide information on the current status of field, strengths and limitations of current research methods, and to indicate future research needs.

1:30 pm

3.2 Evidence on adult non-occupational exposure and cancer risk (bystander, dietary and indoor residential)

Mary Ward, U.S. National Cancer Institute

Evidence for associations between non-occupational exposure to pesticides and adult cancers will be presented. Epidemiologic studies evaluating pesticide use around the home and garden and ‘bystander’ exposure to agricultural pesticides will be summarized. New approaches to exposure assessment and promising areas for future research will be emphasized.

SESSION THEME IV – CHILDHOOD EXPOSURE AND CANCER RISK

2:00 pm

4.1 Agricultural pesticide use and risk of childhood cancer

Peggy Reynolds, Northern California Cancer Center

There has been high public interest in the degree to which children living in areas of intensive agricultural pesticide use may bear a higher risk of developing cancer, but little research conducted to date. Using geographic information system tools, and unique information on field applications of pesticides in California, this presentation will focus on ongoing efforts in California to address this question and future directions for this work.

2:30 pm

> Q & A

3:00 pm

> Health Break

SESSION THEME V – LEVELS OF PESTICIDE EXPOSURE

3:30 pm

5.1 Bystander and indoor pesticide exposure

Chensheng (Alex) Lu, Harvard School of Public Health

Data collected from a longitudinal exposure assessment study has indicated multiple exposure pathways among school-age children in the residential environment. The exposure pathways not only corresponded to personal activities, but to regulatory registration on pesticide use. The findings from this study would provide an effective intervention program to minimize residential pesticide exposure.

3:50 pm

5.2 Dietary exposure – pesticide residues in food

Thea Rawn, Health Canada, Health Products and Food Branch

Pesticide levels are determined in Canadian foods as part of the Total Diet Study in addition to commodity specific studies to establish dietary exposure concentration. An overview of the ongoing Total Diet Study will be presented in addition to other recent research in this field of study.

4:10 pm

> Q & A

4:30 pm

5.3 Hazards of using exposure and toxicology data

Vincent Cogliano, International Agency for Research on Cancer

Risk assessment is challenging because study designs often do not match the exposure scenarios to which they are applied. Exposure data is often aggregated across a population group and does not capture the variation that is characteristic of most individuals. Toxicology is generally studied in mature animals exposed to only one toxic chemical and may not reflect typical human exposure scenarios.

4:50 pm

> Q & A

5:10 – 5:30 pm

> Wrap up of Day 1

Heather Logan, Canadian Cancer Society



7:30 – 8:30 am

> **Breakfast**

8:30 am

> **Welcome, review of Day 1 and overview of Day 2**

Heather Logan, Canadian Cancer Society

SESSION THEME VI – PESTICIDE EXPOSURE SURVEILLANCE

8:45 am

6.1 Biomonitoring of environmental chemicals at Health Canada

Douglas Haines, Health Canada, Risk Management Bureau

This presentation will provide an overview of Health Canada’s biomonitoring initiatives, including a synopsis of the Canadian Health Measures Survey and the Maternal-Infant Research on Environmental Chemicals. Some benefits and limitations of national biomonitoring studies in relation to pesticides will be described.

9:00 am

6.2 Biomonitoring of pesticide exposure among the U.S. population: 1999-2004

Bryan Williams, U.S. Centres for Disease Control and Prevention, National Center for Environmental Health

The purpose of this presentation will be to describe the characteristics of human exposure to various pesticides among the U.S. populace. Biomonitoring data obtained from the National Health and Nutrition Examination Survey (NHANES) from 199-2004. The utility and limitations of these data will be discussed.

9:15 am

> **Q & A**

SESSION THEME VII – PRECAUTIONARY-BASED POLICIES AND PRACTICES FOR REDUCING PESTICIDE EXPOSURE FOR CONSIDERATION IN CANADA

9:30 am

7.1 The Children’s Environment and Health Action Plan for Europe (CEHAPE) and policies to reduce children’s pesticide exposure

Nathalie Röbbel, WHO Regional Office for Europe

The presentation will focus on the Children’s Environment and Health Action Plan for Europe (CEHAPE) and will present its impact of the development of policies to reduce children’s exposure to pesticides.

10:00 am

7.2 European approaches to promoting precautionary policies for reducing pesticide exposure

Genon Jensen, Health and Environment Alliance

This presentation will cover how the European Union is moving forward to reduce pesticides use and exposure to the most hazardous pesticides through its current pesticides legislative reform, scheduled for adoption at the end of 2008. It will also highlight success stories from a number of national governments, farmers’ associations, retailers and NGOs throughout Europe which have implemented strategies for reversing reliance on agrochemical inputs through greater public education and intersectoral collaboration. The role of public interest and community groups in reducing the science policy lag and building coalitions around precautionary pesticides policy will also be addressed.

10:30 am

> **Q & A**

10:45 am

> **Health Break**

11:15 am

7.3 Occupational health and safety regulation and policy on pesticides, and the implications for public health

Rex Eaton, WorkSafeBC

This presentation provides an evidence-based framework for the development of regulation and policy for protecting workers from exposure to pesticides. It outlines regulatory models used to date, and some of the challenges to address in the future. It also discusses the links between occupational and public health.

11:45 am

> Q & A

12:00 pm

> Lunch

1:00 pm

7.4 Pesticide alternatives in agriculture

Rene Van Acker, University of Guelph

Agriculture has evolved over the past 10,000 years and in that context the use of synthetic pesticides in agriculture is a very recent development. Effective pest management relies on a multifaceted approach including inputs of knowledge, biological functionality and direct control tools, including pesticides. This presentation will provide insight into where we have been and where we are going in agricultural pest control and how we can manage pests in ways that rely less (or not at all) on synthetic pesticide use.

1:30 pm

7.5 Organic farming as a precautionary practice

Andrew Hammermeister, Organic Agriculture Centre of Canada

The fundamental principles of organic agriculture will be reviewed to help address questions related to the feasibility of organic agriculture and its ability to maintain food supplies.

2:00 pm

> Q & A

2:15 pm

> Health Break

2:30 pm

SESSION THEME VIII – PANEL DISCUSSION ON WHAT WE’VE LEARNED AND WHERE WE GO FROM HERE

PANEL CHAIR: *Heather Logan, Canadian Cancer Society*

2:40 pm

Aaron Blair, U.S. National Cancer Institute, Occupational and Environmental Epidemiology Branch

3:00 pm

Ron Bonnet, Canadian Federation of Agriculture

3:20 pm

Nathalie Röbbel, WHO Regional Office for Europe

3:40 pm

> Q & A

4:00 – 4:15 pm

> Closing Remarks



SPEAKERS' BIOS



> **DR. AARON BLAIR** led occupational research at the NCI for over 25 years. His research has focused on cancer risks from agricultural exposures, industrial chemicals, and methodologic issues in epidemiology. He has over 300 publications. His case-control studies of lymphatic and hematopoietic cancers were the first to obtain detailed information on pesticide use from farmers in an epidemiologic study. This line of investigation culminated in the development of the Agricultural Health Study, a long-term prospective study of 90,000 farmers and their spouses in Iowa and North Carolina. Dr. Blair has served on numerous advisory groups for national and international organizations and agencies. He has won a number of awards from North Carolina School of Public Health, the International Society of Environmental Epidemiologists, National Cancer Institute, and the Public Health.

> **MS. DAWN BINNS** is the Executive Director of the PEI Division of the Canadian Cancer Society. She holds a Bachelor of Education from Acadia University and is currently a candidate for a Master's in Adult Education Candidate through St. Francis Xavier University. In her roles with the Canadian Cancer Society she has been involved in cancer prevention and public policy initiatives at the provincial and national level. These include: Vice-Chair, PEI Cancer Control Strategy Committee, Past Chair, PEI Healthy Living Strategy Steering Committee, President, Council for a Smoke-Free PEI, Former President, PEI Active Living Alliance, Member, PEI Cancer Screening Advisory Committee, Member, National Healthy Living Issues Group. She has been actively involved in advocating for health policy changes in Prince Edward Island including: Presentation to PEI Legislative Standing Committee on the Environment in support of a province-wide Cosmetic Pesticide Ban and Presentations to the PEI Standing Committee on Social Development regarding tobacco legislative changes. She successfully advocated for some of the following changes in PEI: elimination of sales of tobacco products in pharmacies & post-secondary institutions; elimination of tobacco "power-wall" displays; implementation of a patient navigator position for cancer patients; implementation of a colorectal screening program and increased funding for cancer medications.

> **MR. RON BONNETT**, 2nd Vice President of the Canadian Federation of Agriculture (CFA) has a long and varied career in agriculture. A cow/calf farmer from Bruce Mines, Ontario, Ron became the founding president of the Algoma Federation of Agriculture in the mid-1980s and dabbled in municipal politics as the Reeve of the Township of Plummer Additional. Ron was elected to the provincial board of directors for the Ontario Federation of Agriculture (OFA) in 1995. Subsequently, he was elected to the OFA executive and became Vice President. During his time as OFA President, a position he held for four years, Ron also sat on the CFA National Council and CFA executive, before becoming 2nd vice-president in February 2007. For the past three years, Ron has been a part of the International Federation of Agricultural Producers (IFAP) research committee, where he has worked with farmers in developing countries to improve profitability. He is currently CFA's representative for Health Canada's Pest Management Regulatory Agency (PMRA) Advisory Committee.

> **DR. ROBERT CHARLEBOIS** is a Doctor of Veterinary Medicine and holds an M.Sc in Veterinary Pathology and Microbiology from the University of Montréal. He has held several positions of increasing responsibility at the CFIA. In September 2006, after having directed the Atlantic Laboratories for the CFIA, he accepted the position of Director of the Food Safety Division at the Canadian Food Inspection Agency in Ottawa. He is currently responsible for the National Chemistry and Microbiology Monitoring Programs, scientific advices and food health risk assessments (in collaboration with Health Canada), and for the overarching food safety programs of the CFIA.

> **DR. VINCENT COGLIANO** serves as head of the IARC Monographs programme at the International Agency for Research on Cancer (part of the World Health Organization) in Lyon, France. The IARC Monographs are a series of scientific reviews that identify environmental factors that can increase the risk of human cancer. Dr. Coglianò received his PhD from Cornell University, then worked for 20 years in quantitative risk assessment at the U.S.

> speakers' bios continued

Environmental Protection Agency in Washington. Professional interests include cancer hazard assessment, qualitative and quantitative health risk assessment in general, and identification of susceptible populations and stages of development.

> **MR. REX EATON** has contributed for more than 25 years to occupational health and safety (OHS) regulations, policies and programs, both in BC and nationally. He oversaw the development of the BC *OHS Regulation*, including requirements for agriculture and pesticides. His publications include *Standard Practices for Pesticide Applicators* and the *WHMIS Core Material Manual*. He has served as Chair of the Canadian Association of Administrators of Labour Legislation OHS Committee, and has been a regulatory member on the CSA Strategic Steering Committee, the Advisory Council of the Centre for Health and Safety in Agriculture, and the WHMIS Pesticides Committee.

> **MR. DOUGLAS HAINES** is with Health Canada's Chemicals Management Directorate where he is managing the implementation of national biomonitoring initiatives to track Canadians' exposures to environmental chemicals. Mr. Haines previously managed Health Canada's Great Lakes Health Effects Program and the health component of the Canada-Quebec St. Lawrence Vision 2000 Program which focused on assessing and managing health risks posed by environmental pollution in these two ecosystems. On assignment with Statistics Canada, Mr. Haines led the development of the proposal for the Canadian Health Measures Survey, launched in March 2007. He is currently a member of the Federal-Provincial-Territorial Health and Environment Tracking/Surveillance Task Group.

> **DR. ANDY HAMMERMEISTER** is the Manager of the Organic Agriculture Centre of Canada and is an Assistant Professor of the Nova Scotia Agricultural College in Truro. Andy grew up on a mixed beef and grain farm in southeast Saskatchewan. He has a Bachelor's degree in Agriculture from the University of Saskatchewan, and a Master's degree in Land Reclamation, and a PhD in Applied Ecology from the University of Alberta. Andy has worked with the OACC since 2002, conducting research on crop

rotations, soil amendments, pesticide risk reduction in soybean, variety trials of soybean, wheat, lupin and flax, oilseed pumpkin production, and wireworm control. As manager of OACC, Andy currently is working toward establishing research priorities across Canada, and linking the needs of producers with researchers and funding agencies.

> **MS. GENON K. JENSEN** is Executive Director of the European NGO network, Health and Environment Alliance (HEAL), which she created in Brussels, Belgium in 2003. HEAL now brings together more than 50 groups representing organisations of health professionals, health advocates, patients, women and consumers. Over the past five years, it has established a strong record in bringing key research findings to European policy makers on how contamination of the environment is impacting people's health. Ms Jensen has been an official member of the World Health Organization's European Environment and Health Committee since 2000. She is also on the Steering Committee of the International POPs Elimination Network. Before setting up HEAL, she was the Director of the European Public Health Alliance. She has a degree in journalism and international politics from George Washington University in Washington, DC and an MA in European Administrative Studies from the College of Europe, Belgium. Ms Jensen frequently contributes articles on environmental health policy, including on children's health, pesticides, mercury, and climate change, to various European and international specialist publications and newsletters. She is a co-author of several publications and reports, such as "Halting the child brain drain: why we need to tackle global mercury contamination" and "Cutting back on pesticides for healthier lives".

> **DR. BARNETT KRAMER** is the Associate Director for Disease Prevention and Director of the Office of Medical Applications of Research in the Office of Disease Prevention, Office of the Director at the National Institutes of Health (NIH) in Bethesda, MD. He is the Chairperson of the NIH Continuing Medical Education Committee and is a member of a number of scientific committees. He is Editor-in-Chief of the Journal of the National Cancer Institute. He serves as Chairman of the Physician Data Query



> speakers' bios continued

(PDQ) Editorial Board on Screening and Prevention and is a member of the PDQ Treatment Editorial Board. Dr. Kramer received his medical degree from the University of Maryland Medical School, and completed his internship and residency in internal medicine at Barnes Hospital in St. Louis, Missouri. He completed a medical oncology fellowship at the National Cancer Institute (U.S.). He is board-certified in internal medicine and medical oncology, and has received a master's degree in public health from Johns Hopkins University Bloomberg School of Public Health. Dr. Kramer has extensive experience in cancer treatment studies, primary prevention studies, as well as clinical screening trials of lung, ovarian, breast and prostate cancers. He is medical officer for two large cancer screening trials sponsored by the National Cancer Institute: the Prostate, Lung, Colorectal, Ovarian (PLCO) Trial; and the National Lung Screening Trial (NLST). He has a strong interest in weighing and reporting the strength of medical evidence and sponsors an annual Medicine in the Media Workshop to help working journalists develop methods of reporting medical evidence.

> **DR. CHENSHENG (ALEX) LU** is the Mark and Catherine Winkler Assistant Professor of Environmental Exposure Biology in the Department of Environmental Health, Harvard School of Public Health. His primary research interest is to link toxic chemical exposures, particularly pesticides, to health outcomes. His research program integrates novel biomarkers of exposure and effect, physiologically-based pharmacokinetic (PBPK) model and cumulative risk assessment models. He currently serves as an ad hoc member on the US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Scientific Advisory Panel and a member on the US EPA Food Quality Protection Act (FQPA) Scientific Advisory Board.

> **DR. CONNIE MOASE** received her undergraduate degree from Acadia University in Nova Scotia and her graduate degrees in Developmental Biology from McGill University. Prior to joining Health Canada as a Federal Government scientist in 1995, Dr. Moase was a Post-Doctoral Fellow in the Reproductive Biology Unit of the Ottawa Health Research Institute at the Ottawa Hospital. She is currently Director of the

Health Effects Division within the Health Evaluation Directorate of Health Canada's Pest Management Regulatory Agency (PMRA). The Health Evaluation Directorate has approximately one third of PMRA's 300 staff scientists. Her staff are responsible for conducting mammalian toxicology and epidemiology assessments, dietary, occupational and non-occupational exposure assessments and human health risk assessments for new pesticides and for pesticides under re-evaluation in Canada.

> **DR. ANGELO MORETTO** earned his Medical Degree in 1981, at University of Padua, Italy and PhD in Occupational Medicine in 1987, at University of Bari, Italy. He is an Associate Professor of Occupational Medicine, University of Milano and Director of the International Center for Pesticides and Health Protection, Luigi Sacco Hospital, Milano, Italy. His main research interests are: experimental toxicology of organophosphorus compounds; risk assessment of human exposures to chemicals, especially pesticides. Dr. Moretto is an author of over 50 papers in peer-reviewed journals, several books chapter and revisions of the literature. He is a member of several WHO meetings, including the Joint Meeting on Pesticide Residues, since 1987 and a member of the European Food Safety Authority Scientific Panel on plant protection products, since 2003.

> **MS. THEA RAWN** is a Research Scientist with a background in the analysis of pesticides and persistent organic pollutants in environmental and food matrices. She is the program lead for the pesticide program in the Food Research Division and as such, she works closely with colleagues in our Regional Laboratories and the Pest Management Regulatory Agency within Health Canada. Thea did her graduate work at the University of Manitoba through a collaborative agreement with the Freshwater Institute (Dept of Fisheries and Oceans). Prior to joining Health Canada, she was involved in evaluation of chemicals with Environment Canada.

> **DR. PEGGY REYNOLDS** is a Senior Research Scientist at the Northern California Cancer Center and Consulting Professor, Stanford University, Department of Health Research and Policy. She received her Ph.D. in Epidemiology from the University

> speakers' bios continued

of California at Berkeley, and spent several years as an epidemiologist for the California Tumor Registry and San Francisco Bay Area SEER (Surveillance, Epidemiology and End Results) program. She has conducted a number of cancer epidemiology studies, with a particular focus on environmental risk factors, including geographic information system based studies of patterns of cancer incidence in areas of high agricultural pesticide use in California.

> **MS. NATHALIE RÖBBEL** is a sociologist and has a PhD from the Friedrich Wilhelms Universität Bonn in Germany. She currently works as a Technical Officer on Environment and Health Coordination and Partnerships in the WHO Regional Office for Europe. She is responsible for implementing a project on environment and health performance reviews with the aim of supporting member states of the WHO European Region to fulfill the commitments taken at the Fourth Ministerial Conference on Environment and Health in Budapest, 2004. She has been working with the WHO since 2002.

> **DR. JOHN SPINELLI** is a Senior Scientist in Cancer Control Research at the BC Cancer Agency, Professor in the Department of Health Care and Epidemiology at the University of British Columbia, and Adjunct Professor in the Department of Statistics and Actuarial Science at Simon Fraser University. Dr. Spinelli's research focus is on the identification of environmental and genetic risk factors for cancer, particularly for lymphatic and hematopoietic malignancies, and on the development of statistical methodology for epidemiology and other areas of health research.

> **DR. GERRY STEPHENSON**, Professor Emeritus at the University of Guelph, in 2007 published the second edition of a textbook, entitled, "Pesticides and the Environment". He is also the author of several other books and chapters in books and more than 100 refereed research publications related to the biochemistry, environmental fate and effects of pesticides in agricultural, forestry and landscape environments. More than 35 students have obtained their MSc and/or PhD degrees under his supervision. For most of his career, he has been a member of the Ontario Pesticides Advisory Committee. He currently

serves as Vice-Chair of that committee. He is also Canada's representative on the IUPAC (International Union of Pure and Applied Chemistry), Advisory Committee on Crop Protection Chemistry.

> **DR. RENE VAN ACKER** is Professor and Chair of the Department of Plant Agriculture at the University of Guelph and was previously Professor of weed science at the University of Manitoba. His research interests include weed seedling biology and ecology, robust cropping systems and coexistence of GM and non-GM crops. He has published over 80 peer-reviewed works to-date and has collaborative projects in Europe, the US and Canada. Rene grew up on a farm in Ontario and holds BSc and MSc degrees from the University of Guelph and a PhD from the University of Reading.

> **DR. MARY WARD** is a Senior Investigator in the Occupational and Environmental Epidemiology Branch in the Division of Cancer Epidemiology and Genetics at the National Cancer Institute. Her research focuses on the evaluation of cancer risks associated with environmental exposure to pesticides and other chemicals; and the role N-nitroso compounds and their precursors play in cancer development, particularly exposure to nitrate from drinking water and diet. Cancers of specific interest include childhood leukemia, non-Hodgkin lymphoma, colorectal, and stomach cancer. Dr. Ward incorporates state-of-the art exposure assessment into her studies, using Geographic Information System (GIS), environmental monitoring data, and geographic fate and transport models.

> **DR. BRYAN WILLIAMS** is a Senior Service Fellow at the National Center for Environmental Health Sciences within the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. Dr. Williams serves directly under Dr. Dana Barr, who is the Chief of the Pesticide Laboratory within the Organic Analytic Toxicology Branch at CDC. Dr. Williams' primary area of expertise includes biomonitoring, exposure assessment, and epidemiology. He has authored over 50 peer reviewed articles, abstracts, and presentations. Dr. Williams' past academic appointments include Columbia University and the University of Arizona Health Science Center.



GENERAL CONFERENCE INFORMATION



Conference Objectives

1. Presenting the body of evidence about adult and childhood pesticide exposure - at work, in communities, in what we eat and its association with cancer risk.
2. Presenting precautionary-based policy alternatives to minimize pesticide exposure.
3. Building a knowledge exchange network about pesticides and cancer for the public, health care professionals, public health practitioners and decision makers.
4. Identifying gaps in current research.

Target Audience

- public health practitioners and health care professionals
- policy makers, administrators and communicators
- individuals and organizations concerned about pesticide exposure and cancer risk
- environmental, agricultural and labour groups
- researchers

Registration Hours

Tuesday, November 11 (6:00 – 8:00 p.m.)

Wednesday, November 12 (7:00 – 5:30 p.m.)

Thursday, November 13 (7:30 – 4:30 p.m.)

Nametags/Badges

Participation in the conference is limited to registered attendees. Please wear the official nametag provided to you upon registration at all times.

Attire

Business casual

Health and Wellness Policy

Smoking is prohibited at all conference functions and in all meeting rooms. Thank you for your consideration.

Meeting Evaluation

A conference evaluation survey will be distributed during lunch on the 2nd day. Your participation in this survey is greatly appreciated since it provides the Canadian Cancer Society with valuable information for future similar events. Should you require an additional copy of the evaluation, please pick one up at the registration desk.

Hotel Information

Toronto Marriott Bloor Yorkville Hotel

90 Bloor Street East

Toronto, Ontario M4W 1A7 Canada

Phone: 1 416 961 8000

Fax: 1 416 961 4635

Toll-free: 1 800 859 7180

Please note that the conference will take place in the Forest Hill Ballroom on the 1st floor with meals being served in the Yorkville Room also located on the 1st floor.

The Toronto Marriott Bloor Yorkville hotel is located in the center of downtown Toronto in the fashionable Yorkville district. Its location offers direct access to the Yonge & Bloor subway lines, world class shopping, dining and entertainment and it is steps from Toronto's key attractions including Royal Ontario Museum, Air Canada Centre, Bloor Yorkville shopping district, Eaton Centre, CN Tower, Art Gallery of Ontario, theatres, and Rogers Centre.

Parking

On-site parking, fee: 25 CAD (plus GST) daily

Valet parking, fee: 30 CAD (plus GST) daily

> the Canadian Cancer Society would like to thank the Conference Steering Committee

Dawn Binns

Executive Director
Canadian Cancer Society, P.E.I. Division
Canada

Lynn Goldman-*Consulting member*

Senior Research Fellow, Office of Critical Event
Preparedness and Response (CEPAR)
Professor, Bloomberg School of Public Health
John Hopkins University
U.S.A.

Heather Logan

Director, Cancer Control Policy and Information
Canadian Cancer Society/National Cancer
Institute of Canada
Canada

Christina Mills

(for Canadian Public Health Association)
Research Professor
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