

**Peer Consultation Meeting  
for ComET  
November 8, 2004**

**Introduction of Speakers and Key Associates**

**M.E. (Bette) Meek**

Bette Meek is the host of the meeting and Manager of the Existing Substances Division, Contaminants Bureau, Safe Environments Programme, Health Canada. Her responsibilities as Manager of the Existing Substances Division in the Environmental Health Directorate of Health Canada involve hazard and risk assessment for chemical contaminants in the general environment; primarily responsible for the approach to assessment of health effects of Existing Substances under the Canadian Environmental Protection Act. Ms. Meek has considerable experience in the evaluation of health-related data for the derivation of guidelines for chemical contaminants of air and drinking water and has acted on numerous occasions as advisor in this area to international organizations (including the World Health Organization, the Organization for Economic Cooperation and Development and the International Labour Organization). She has authored over 90 publications on risk assessment of environmental contaminants and graduated with an Honours B.Sc. in Biology from Queen's University and an M.Sc. in Toxicology (with Distinction) from the University of Surrey in the U.K.

**Dr. Roger Sutcliffe**

Dr. Roger Sutcliffe has led the Exposure Assessment Section, Existing Substances Division, Safe Environments Programme of Health Canada since April 2003. His present responsibilities relate primarily to development and implementation of methodology for the exposure assessment of existing substances and the categorization for greatest potential for human exposure under the Canadian Environmental Protection Act.

He graduated from University College London, University of London with a B.Sc. in Chemistry (1976) and a Ph.D. in Organic Chemistry (1979). In 1990, he was elected a Fellow of the Chemical Institute of Canada. He has published over 50 papers in the scientific literature and is co-inventor on four patents.

Roger was a research scientist at the National Research Council of Canada and Forintek Canada Corp. prior to joining Environment Canada in 1993. At Environment Canada, Roger was involved in risk assessment activities for eight years within the Commercial Chemicals Evaluation Branch, before working as a Senior Policy Analyst in the Secretariat to the Task Force on the Canadian Information System for the Environment, and from its formation in August 2002 until March 2003, as Senior Advisor in the Knowledge Coordination Office, Environment Canada.

### **Paul S. Price, M.S.**

Mr. Paul Price is a modeler and researcher on exposures to chemicals. He is a Director of The LifeLine Group, a non-profit corporation developing software for the assessment of exposure to pesticides and other substances. Mr. Price has more than 20 years of experience in using computer simulation to assess exposure to chemicals for industry, government, and trade associations. He has authored over 20 articles and book chapters on exposure and risk assessment. Areas of interest include Monte Carlo modeling of uncertainty and variability of exposure, dose reconstruction, aggregate and cumulative risk, worker exposures, and consumer products and pesticide exposures. Mr. Price has served on advisory boards for the U.S. Environmental Protection Agency (EPA), The State of California, the Army Corp of Engineers, The Department of Defense, and industry. He holds a B.A. in Chemistry and a M.S. in Civil Engineering, both from the University of Maryland. Among a long list of Honors, he was awarded two Bronze medals for his achievements at the EPA and three Awards from the Society of Toxicology for outstanding publications and presentations. He served on the editorial boards of *Risk Analysis* and *Regulatory Toxicology and Pharmacology*.

### **Dr. Christine F. Chaisson**

Dr. Christine Chaisson is a co-founder and Director of The LifeLine Group. She is a recognized expert in risk assessment and regulatory strategies for pesticides, food additives and other chemicals in the human environment. She is one of the architects of the first, and also the most recent, aggregate and cumulative exposure/risk assessment software models being used in the United States. Her special focus on these models has been in the dietary sections—agriculture, food technology, food consumption and food composition.

Dr. Chaisson began her career in risk assessment at the EPA in the Office of Pesticides and Toxic Substances. She served as the Acting Chief of Toxicology and the OPP Project Officer for research, overseeing projects at several EPA research facilities as well as the lead toxicologist for risk assessments on many pesticides. From 1985 to 1998, Dr. Chaisson was President of Technical Assessment Systems (TAS), which became the premier exposure/risk assessment consulting firm internationally. Through TAS, she introduced key concepts in risk assessment and risk modeling. Dr. Chaisson received her Doctorate in Cellular Biochemistry in 1982 from George Washington University, Washington, D.C. She is also an alumnus of Boston University and the Graduate Studies Program, Department of Physiology, L'Ecole de Medicine, Paris, France.

## **Dr. Michael Jayjock**

Dr. Michael A. Jayjock came to The LifeLine Group from Rohm and Haas Company, where he served in various technical positions since 1969, including Senior Research and EHS Fellow and Manager. In this position at Rohm and Haas through 2003 he was responsible for determining the human health risk from exposure to company products, reactants, and intermediates. He has a Ph.D. in Environmental Engineering from Drexel University, Philadelphia, Pennsylvania, where he also received his Master of Science degree in Environmental Science and Occupational Health. Dr. Jayjock is a Fellow of the American Industrial Hygiene Association and Diplomat of the American Board of Industrial Hygiene (CIH). He has served on various committees of the American Industrial Hygiene Association: Committee on Exposure Assessment Strategies, Exposure Strategies Modeling Subcommittee, Exposure Strategies Expert System Subcommittee, Committee on Risk Assessment, and Low-Dose Estimation Task Group.

Dr. Jayjock has expertise in such areas as exposure modeling and human exposure to environmental pollutants, human health risk assessment, and uncertainty analysis. He has published extensively in peer-reviewed publications and served from 1998-2003 as an Editorial Board Member for the *American Industrial Hygiene Journal*.

## **John Arnot, M.S.**

John Arnot is a researcher and consultant in the field of environmental toxicology with a particular interest in chemical exposure modeling. He holds a B.Sc. specializing in Cell Biotechnology from the University of Alberta and a Master's in Environmental Toxicology from Simon Fraser University. He is currently a consultant and research associate with the Canadian Environmental Modeling Centre at Trent University, Peterborough, Ontario. This Centre is part of the Canadian Environmental Modeling Network involving four other modeling groups in Canada and with international associations.

He has developed and applied mechanistic bioaccumulation models for invertebrate, fish, avian and mammalian species in the food webs of various ecosystems. Current model research includes the development and application of novel methods for screening level risk assessment.

He provides technical and policy guidance to Environment Canada for the categorization of chemicals on Canada's Domestic Substances List. This has included critical reviews for the selection of empirical persistence, bioaccumulation and toxicity 'pivotal values' as well as an assessment of the bioaccumulation potential for 12,000 chemicals on the DSL. He also provides technical guidance for the application of bioaccumulation models towards establishing sediment quality objectives for the State of California.

## **Dr. Don Mackay**

Don Mackay was born and educated in Glasgow, Scotland. He graduated in Chemical Engineering in 1961 and worked for some years in the petrochemical industry. In 1967 he joined the University of Toronto and taught and researched there for 28 years. In 1995 he moved to Trent University in Peterborough, Ontario, Canada where he is now Director of the Canadian Environmental Modeling Centre.

His interests have included the fate and effects of oil spills, physical chemical properties of organic chemicals, and the development and validation of models of chemical fate in the environment. He has introduced the concept of fugacity to environmental modeling and has a particular interest in bioaccumulation processes and cold climates.

He has authored some 600 publications including authoring or coauthoring 12 books. He has received a number of awards, including the Honda Prize for Ecotoxicology.

*This meeting is provided by Health Canada as an opportunity for all interested parties to view and understand a new exposure assessment tool, ComET, to be employed by Health Canada, and for any interested party to provide data or information that could improve the working architecture of that tool. For purposes of illustration, only, several dozen substances have been featured in ComET. Selection of these chemicals does not have any regulatory or other significance as they were just convenient to the ComET architects for illustration purposes. This meeting is NOT a peer review of the tool or its application by Health Canada, and is NOT a forum for discussion of the individual chemicals and data used for those chemicals. Discussion of the data and algorithms will be for illustrative purposes regarding the function and design of ComET only.*