

About the editors

Jean-Charles Côté is a Research Scientist with Agriculture and Agri-Food Canada at the Horticulture Research and Development Centre in Saint-Jean-sur-Richelieu, Quebec, Canada. He received a B.Sc. in Biology from Université du Québec à Rimouski, Canada, a M.Sc. in Microbiology from Sherbrooke University Medical School, Canada and a Ph.D. in Molecular Biology from Cornell University, Ithaca, NY. Jean-Charles joined the Horticulture Research and Development Centre in 1989. He was appointed Adjunct Professor at the Université du Québec à Montréal in 1993. His research focuses on *Bacillus thuringiensis*. His main invention is a series of seven *Bacillus thuringiensis*-based bio-insecticides called Bioprotec™, developed through a series of Matching Investment Initiatives with the private sector for use in horticulture, forestry and households. More recently, he was the co-inventor of a novel *B. thuringiensis* strain which exhibits specific cytotoxic activity against selected human cancer cells. He also works on Bacillaceae phylogeny and ecology, including not only *B. thuringiensis* but also *B. cereus*, a contaminant of dairy products and *B. anthracis*, the anthrax-causing agent. He is also pursuing activities on the true role of *B. thuringiensis* in the environment. He has led two international projects, co-organized three international Conferences, and has co-supervised five Ph.D. and 10 M.Sc. students. In 2006, he received a Gold Harvest Ministerial Award for his outstanding work.

Imre S. Otvos is a Senior Research Scientist with Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, Victoria, British Columbia. He obtained his Ph.D. at the University of California, Berkeley, in 1969, specializing in forest entomology and biological control. On graduation, Dr. Otvos returned to Canada and joined the Canadian Forest Service as a Research Scientist, and has been involved with the management of forest defoliators, first in eastern, and since 1980 in western Canada. He has made significant contributions in developing integrated management techniques, using ecologically sound and economically feasible methods for controlling forest defoliators using parasitoids, naturally occurring viruses and *Bacillus thuringiensis* subsp. *kurstaki* (*Btk*). He also investigated the potential non-target effects of *Btk* applications in the forest environment. Dr. Otvos was a co-developer of the integrated management system developed and now used operationally in BC for controlling the Douglas-fir tussock moth. Dr. Otvos is a Board Certified Entomologist (Entomological Society of America). He served as Associate Editor for The Canadian Entomologist for many years, and has authored over 150 research papers and reports, including several invited book chapters, and has co-edited two Proceedings. In recognition of his significant contributions to entomology he received a lifetime membership in the Entomological Society of British Columbia and was elected a Fellow of the Entomological Society of Canada, Fellow of the Royal Entomological Society (UK), and elected into the General Assembly of the Hungarian Academy of Sciences. For his cooperative work with entomologists in China he was named Research Professor of the Key Laboratory of Forest Protection by the National Forestry Administration. He was also an adjunct Professor in the Faculty of Forestry, University of British Columbia, Department of Biology, University of Victoria, and Department of Forest Protection, Northeastern Forestry University (Harbin, P.R. China).

Jean-Louis Schwartz is a full professor at the Department of Physiology, Faculty of Medicine of the Université de Montréal. He is also the Leader of the Biocontrol Network, a Canadian consortium of 57 scientists from Academia, Government and Industry. The Biocontrol Network is supported by the Natural Sciences and Engineering Research Council of Canada (NSERC), several federal and provincial organisations, and a number of private partners. The Network conducts research and development in the area of plant protection against noxious organisms in agriculture and forestry. Jean-Louis was formerly a research scientist at the National Research Council of Canada in Ottawa (Biological Sciences) and Montreal (Biotechnology Research Institute), where he pioneered electrophysiological and biophysical approaches in endocrine physiology. For the last fifteen years, he has focused on the mechanism of action, at the molecular and cellular levels, of proteins that form pores in cell membranes, including several bacterial toxins that affect mammals and invertebrates. He and his collaborators ("Team Canada") are recognized world leaders in *Bacillus thuringiensis* based insecticide research. Within the framework of the Biocontrol Network, Jean-Louis is interested in the biology, the socio-economics and the regulatory aspects of non-chemical management of crop and forestry pests and of disease vector insects. He is the author of over 200 scientific articles, communications and book chapters. Jean-Louis' goal for the next decade is to contribute to the establishment of an all-inclusive Canadian consortium which will make Canada the international leader in the development of traditional and new crop protection within the context health and environment protection and that of global issues like climate change, invasive species, emerging diseases and sustainable resources.

Charles Vincent received a B.Sc. in Agriculture from Université Laval (Quebec City, Canada), a M.Sc. and a Ph.D. (1983) in Entomology from McGill University (Montreal, Canada). Since 1983, he worked as an entomologist for the Horticultural Research and Development Center (Agriculture and Agri-food Canada) at Saint-Jean-sur-Richelieu, Quebec, Canada. In 1984, he has been appointed adjunct professor at the Macdonald Campus of McGill University. He has been appointed as adjunct at Université du Québec à Montréal in 1992, and, since 2000, is invited professor at l'Université de Picardie Jules Verne (Amiens, France). He co-supervised the work of 35 graduate students. His research focuses on the management of insect populations of horticultural importance with biological (including biopesticides) and physical control methods. To date he published 135 scientific and 200 technical papers. He edited 14 technical bulletins or books. He served as President of the Entomological Society of Canada in 2003-2004. He received the Prix Léon Provancher (professional) from the Entomological Society of Quebec (1991) and the Prix Jean-Charles Magnan from the Quebec Order of Agronomists in 1989 and 1994, a research scholarship from the Ministry of Agriculture (the Netherlands) in 1994, a fellowship from OECD (Paris) in 1996. In 1999, he has been awarded the "Médaille de distinction agronomique" by the Quebec Order of Agronomists for his research and extension work in plant protection. He received an "Exceptional Service Award" in 2000 and 2007 from the Entomological Society of America.