

Supplementary material of:

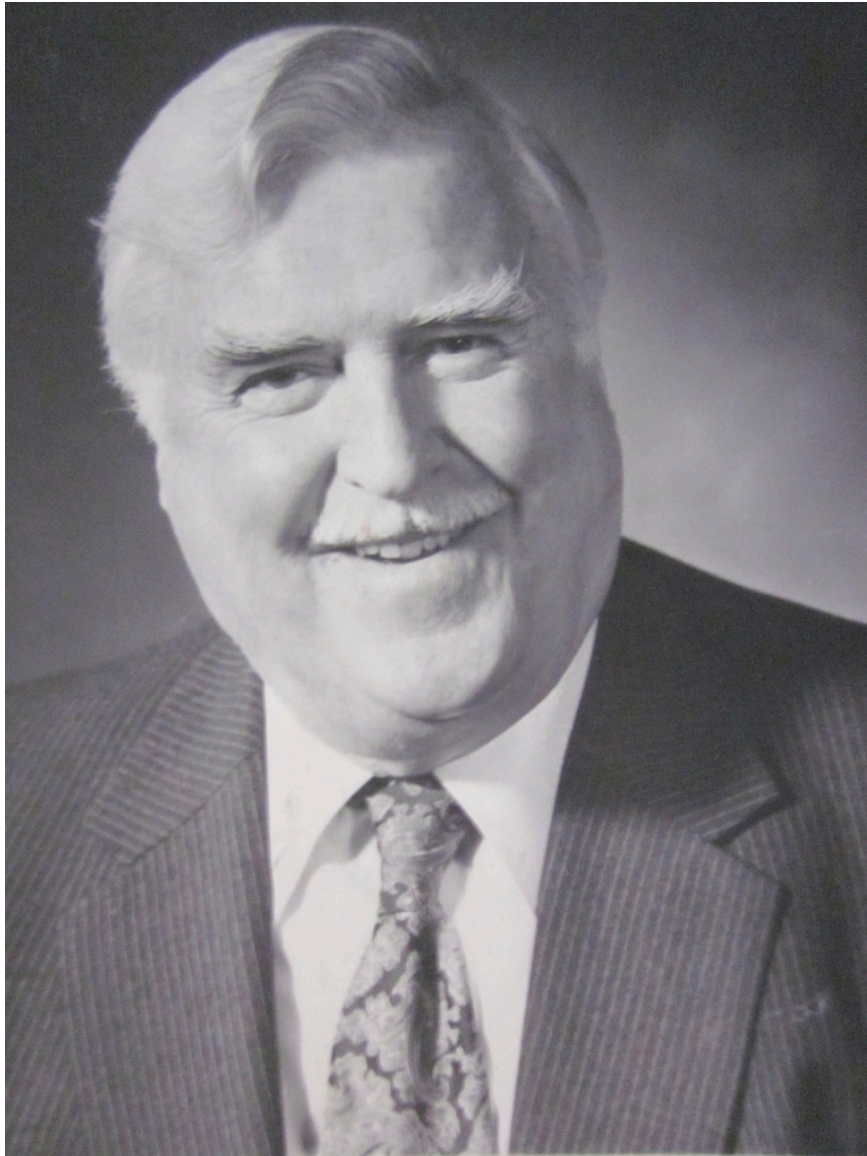
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Selected entomologists that made contributions to viticultural entomology in Canada

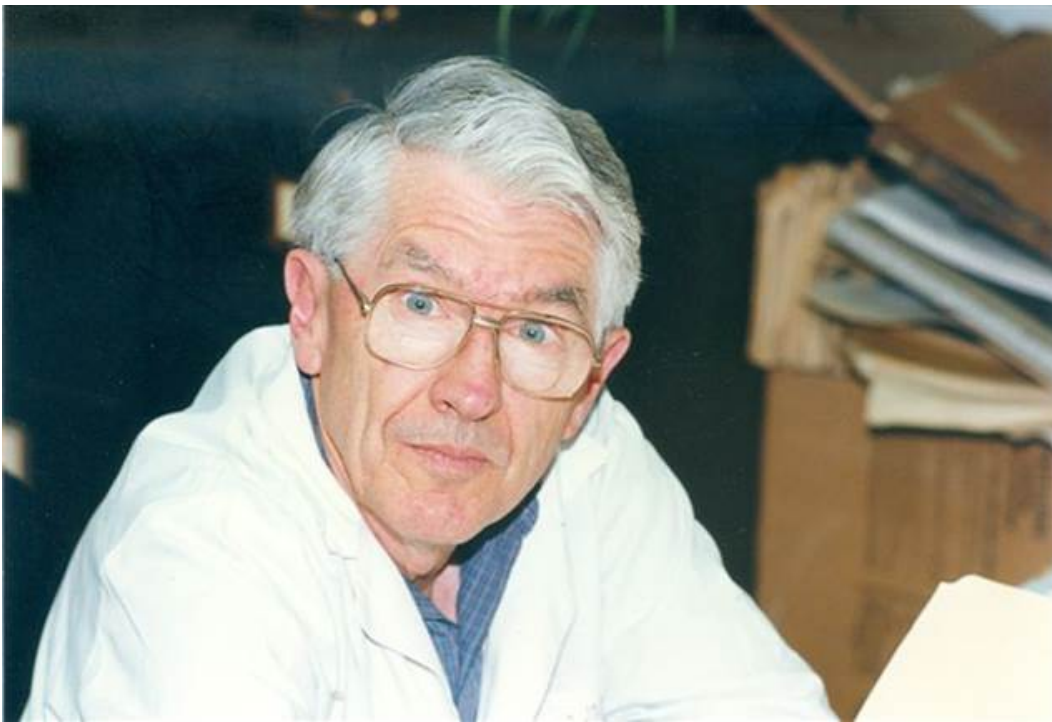
Born in Crediton, England, **William Saunders** (1836-1914) moved with his family to London, Ontario, in 1848 where he became an established druggist and later President of the Canadian Pharmaceutical Society. His interest in the medicinal properties of plants led him to study agriculture and entomology. With his friend the Reverend Charles Bethune they founded the Entomological Society of Canada in 1863 and began publishing the Canadian Entomologist in 1868. Saunders served as Editor for 13 years and published numerous articles and reports, many of which included mention of pests injurious to grapes. Saunders was considered the leading authority on horticulture and agriculture and his book *Insects Injurious to Fruits* published in 1883 served as the standard text on the subject for many years. The Canadian government asked Saunders in 1885 to investigate the creation of a national experimental farm system. Two years later he was appointed Director of the newly created organization within the Department of Agriculture; a position he held for the next 25 years. William Saunders received numerous awards and honorary degrees and was an original member of the Royal Society of Canada.



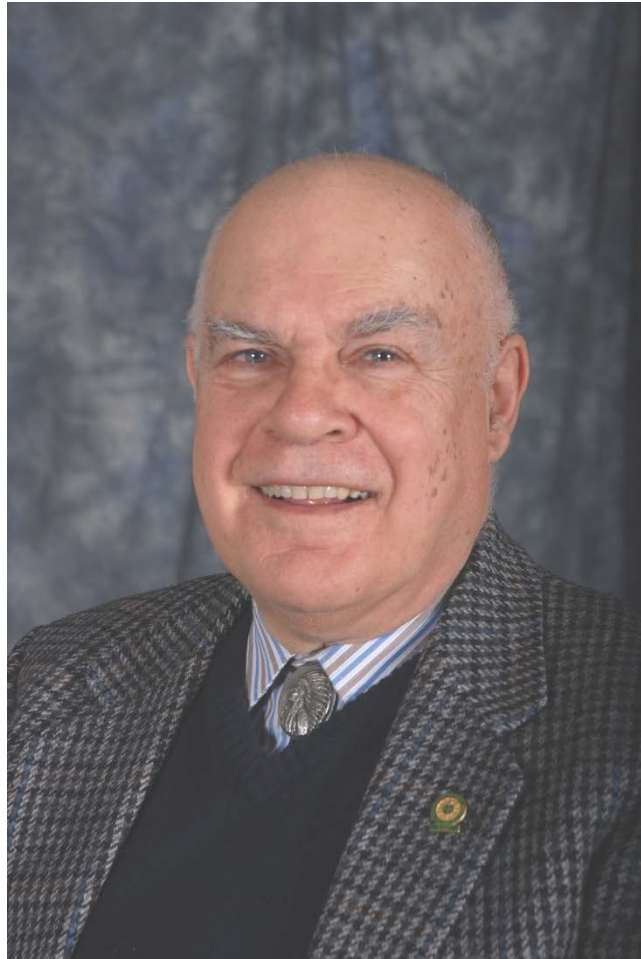
Born in Rossiare, Ireland, **Bryan P. Beirne** (1918-1998) received his Ph.D. in 1940 from the University of Dublin and became a full time faculty member there by age 25. In 1949 he was appointed Senior Entomologist for the Canada Department of Agriculture in Ottawa; in 1955 he assumed the position of Director of the Research Institute for Biological Control in Belleville, Ontario. In 1967 he and several colleagues from the Belleville institute established the Pestology Centre at Simon Fraser University, Burnaby, British Columbia, that included a Master in Pest Management Program. At Simon Fraser University, he served as Dean of Graduate Studies and Emeritus Professor of Pest Management. Bryan Beirne received many accolades, including election as a member of the Royal Irish Academy and the Gold medal of the Entomological Society of Canada. Beirne had a broad interest in all areas of pest management, publishing 15 books and more than 120 scientific papers, some of which dealt with vineyard pest management.



Born in New Glasgow, Prince-Edward-Island, **Allison Bennett (Stevie) Stevenson** (1929-2013) received his B.Sc. in Agriculture from McGill University in 1951 and then worked as an assistant entomologist at the Field Crop Insect Unit, focusing on pests of potatoes. In 1953 he started to work at the Science Service Laboratory in Charlottetown, Prince Edward Island. He completed his Ph.D. at the University of Wisconsin, Madison, in 1959, after which he was recruited to work for the Research Branch of the Canadian Department of Agriculture, now Agriculture and Agri-Food Canada, in Vineland, Ontario. During his early career as a research scientist he studied the biology of grape phylloxera and evaluated methods of control. Other grape research included control of damage caused by birds. In 1978-79, Stevenson was a visiting scientist at the Wellesbourne National Vegetable Research Station, United Kingdom. Later in his career, he switched the focus of his research to the biology and control of carrot insects with the aim of reducing the use of chemicals through pest monitoring systems. He published more than 35 scientific papers in peer-reviewed journals and retired in 1996 following a 37-year career.



Born in Alexandria, Egypt, **Noubar John Bostanian** obtained his B.Sc. in 1965 and M.Sc. in 1967 from the American University of Beirut, Lebanon, and Ph.D. in 1971 from McGill University. In 1973 he was appointed Insecticide Liaison Officer and Secretary of CCPUA at Agriculture and Agri-Food Canada, Ottawa. In 1978, he moved to the Horticultural Research Centre at Saint-Jean-sur-Richelieu, Quebec, where he worked to develop Integrated Pest Management programs in apple orchards and berry crops. He developed several techniques, including toxicity tests for predatory mites that allowed to conserve predatory mites, and augmentation techniques to manage phytophagous mites in orchards and vineyards. He also developed the action thresholds for the tarnished plant bug and strawberry bud weevil in June-bearing strawberries. In 1997, he initiated a project concerning the diversity of arthropods in Quebec vineyards. This was the foundation on which other scientific studies were to be conducted to promote Integrated Pest Management programs in vineyards. One such study was the toxicity of several insecticides and fungicides to the key predatory mite *Anystis baccarum* prevalent in vineyards. He retired in 2012 after publishing 80 refereed articles, several non-refereed articles and a number of Agriculture and Agri-Food Canada Research Branch Technical Bulletins. He was the senior editor of two books, one on the Management of Arthropod Pests of Small Fruit Crops (Intercept 1990) and another on Arthropod Management in Vineyards (Springer 2012). Noubar retired in 2012.



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Born in Winnipeg, Manitoba, **Mitch Trimble** received his B.Sc. (1969) and M.Sc. (1972) from the University of Manitoba before completing his Ph.D. (1977) at the University of Waterloo, Ontario. He undertook postdoctoral studies at the University of British Columbia (1977-80). In 1980 Mitch was recruited by the Research Branch of the Canadian Department of Agriculture to study insect pests of fruit crops. During his 32-year career with the Vineland Research Station he focused on the development of sustainable and cost-effective management programs for the key moth pests of grapes, apples and peaches. He published 67 scientific papers in peer-reviewed journals. Mitch was a Visiting Scientist at the Research Institute for Plant Protection in Wageningen, The Netherlands (1987–88) and at the Swedish University of Agricultural Sciences in Alnarp (1997). He served as Assistant Director (1984–1987) and Leader of the Tree Fruit Research Program (1984-1994) at the Vineland research facility, and as an Associate Editor of *The Canadian Entomologist* (2002-2008). Mitch retired in 2012.

