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CURRICULUM VITAE of DR RICHARD E. SMART

EXECUTIVE SUMMARY

Richard Smart is one of the world's best educated and most experienced viticultural scientists. He has been in vineyards for 50 years, working as a researcher, an educator and more recently as a consultant. He has visited and lectured or consulted in many of the world's wine regions and wine producing countries. This has included Old World countries in Western and Eastern Europe, and most New World countries like Australia, New Zealand, North and South America, and South Africa. He also is making an expanding contribution to vineyard developments in Asia like China and some tropical countries such as Thailand, Myanmar and the Philippines. He has visited almost 40 countries for his vineyard interests.

Dr Smart is best known for his pioneering studies in winegrape canopy management, techniques applicable to modern, high vigour vineyards leading to improvements in yield and wine quality. Richard's long career and extensive travels has given him a very detailed but broad knowledge of viticulture.

Throughout his career Richard Smart has had extensive contact with the wine sector, and is familiar with wine making technology, the products and international wine market. He has extensive experience speaking to farmers and grower organisations. His clients have ranged from small husband and wife vineyards to some of the world's largest wine companies. Much of his recent consulting has been in countries with developing wine sectors, like Mexico, Serbia, Georgia, Thailand, Myanmar and several provinces of China.

THE PROFESSIONAL CAREER OF DR RICHARD SMART

Richard's professional career can be described in six distinct stages spread over multiple locations. These are:

Stage one, as undergraduate 1961 to 1965, studying Agricultural Science at Sydney University, NSW, graduating with Honours.

Stage two, early research career as a Viticultural Scientist at Griffith, NSW, 1966 to 1971, working for NSW Department of Agriculture.

This early research was on irrigation and sunlight use by vineyards. I published one of the first studies in the world about drip irrigation on vineyards, now one of the most common forms of vineyard irrigation used around the world. My studies of sunlight use by vineyards were recognized for originality world wide.

Stage three, completing PhD studies at Cornell University, N.Y 1971 to 1975.

I chose Cornell University in upstate New York for my PhD studies so as to have Professor Nelson Shaulis as my primary supervisor. Nelson Shaulis is generally termed as the "father of canopy management", and was among the first to recognize that within-canopy shade was the principal reason for limiting grapevine yield and fruit composition in vigorous vineyards. This period also allowed exposure to Eastern USA viticulture, quite unique in the world. I also developed an interest in and skills for climatology and its measurement.

Stage four, teaching and research at Roseworthy Agricultural College, 1975 to 1982

I was involved in the planning and teaching of a new three-year Applied Science Degree course for viticulture and oenology at Roseworthy, which at that time was one of the more detailed courses in viticulture available world-wide. My work also included administration, as Head of the Department of Viticulture, and also as Dean of the Faculty of Oenology. For the last few years I was Senior Research Fellow, and established and managed a microvinification research facility, conducting research into vineyard factors affecting wine quality.

Stage five, involving research, extension and international consulting at the New Zealand Ministry of Agriculture and Fisheries Ruakura Research Centre, Hamilton, 1982 to 1990.

This was the most productive research and extension period of my career. My appointment as National Viticultural Scientist offered opportunities for leading viticultural technical development throughout NZ. My research covered several areas, including studies of canopy microclimate, vine physiology and grapevine training systems and mechanisation. I developed a clonal selection and virus indexing and elimination program along with ampelography studies. I founded the New Zealand Society for Viticulture and Oenology, and initiated and was key organizer for the Second International Conference on Cool Climate Viticulture

and Oenology, held in Auckland, January 1988. I travelled extensively participating in scientific and industry conferences, and latterly doing consulting on behalf of the NZ Government.

Stage six, as consultant, teacher and researcher, 1990 to present.

Based on my recognized expertise in canopy management and general viticulture, I developed an international consultancy business which until now has included clients in almost 40 different countries. Conducted under the business name Smart Viticulture, activities expanded to all aspects of viticulture consultancy and the conduct of educational tours. This consultancy work has been conducted from Port Macquarie, NSW, then Launceston, Tasmania, and more recently from Newlyn, Cornwall, UK.

During this period I was also involved in undergraduate teaching of viticulture at University of California Cal Poly, in San Luis Obispo, California in 2002 and 2003, for one term in each year. I also supervised two PhD students for the University of Tasmania. Working with the client Tamar Ridge Estate I was involved in applied research using State and Federal funding, and managing an experimental microvinification facility for viticulture and winemaking research.

An important change in professional interest took place in 2010 and 2011 when Dr Smart discovered infection in UK vineyards of trunk diseases, primarily due to the fungi *Botryosphaeria* and *Phomopsis*. Subsequently he has discovered these and other trunk diseases in most vineyards which he visits around the world, often they were previously unknown. He has attended many scientific meetings on the subject and in 2015 has developed along with scientific colleagues a protocol to overcome the disease in commercial vineyard, called Timely Trunk Renewal. This is now promoted world wide.

PERSONAL DETAILS

Date and place of birth: 6 March, 1945, Windsor, N.S.W.

Citizenship: Australian, residence permit for UK,
Presently living in Newlyn, Cornwall, UK

Marital status: Married to Vanessa Mary Bosanko

Qualifications obtained:

1966 **B.Sc. Agr. (Hons II)**, Sydney University, N.S.W.
Full time, 1962-1965.

1973 **M.Sc. (Hons.)**, Macquarie University, N.S.W.
External, 1968-1971. Thesis: *Aspects of light use by vineyards*

- 1976** **Ph.D.**, Cornell University, N.Y. Full time, 1970-1975. Thesis: *Implications of the radiation microclimate for the productivity of vineyards*
- 1995** **D.Sc. Agric.** University of Stellenbosch, South Africa
This degree is by submission of published papers. Thesis: *The effect of manipulating grapevine vigour and canopy microclimate on yield, grape composition and wine quality.*