

Dr Peter Alexander Taylor

Curriculum Vitae

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Qualifications: B.Sc (Hons) Melb. 1971, PhD (ANU) 1974

Professional Affiliations:

- Australasian Plant Pathology Society
- International Society for Horticultural Science

Principal Skills

- Crop management and crop protection
- Expert diagnosis of crop failures and crop production problems in temperate and tropical areas, especially in matters of insurance and/or litigation (Refer to Appendix for listing).
- Technical knowledge of crop protection products
- R&D management and execution in pastures, vegetables, fruit crops, amenity trees, turf and field crops.
- Registration of agrichemicals and veterinary chemicals and biologicals
- Plant Pathology
- Entomology
- Teaching (tertiary) and training (all levels)
- Application of research results to practice
- Research/Project management
- Project definition/proposals
- Communication
- Writing research papers and reports
- Information technology and database application development
- Problem solving

Experience

1. More than thirty five years' experience in research and diagnosis of diseases of fruit trees, forest trees, grapevines, field crops, pastures and vegetables in temperate and tropical regions.
2. Have conducted many successful investigations of problems associated with crop protection and crop failures, on behalf of insurance companies and corporate and private clients involved in, or potentially involved in, litigation. Matters investigated include damage to field, fruit and vegetable crops allegedly resulting from the use of crop protection products, problems occurring in production, storage and transport of horticultural produce, spray drift, seed-borne, soil-borne and foliar diseases caused by fungi, bacteria and viruses, quality of nursery stock, causes of grapevine and fruit tree decline and death, quarantine issues, land use issues and many others. Refer to specific issues listed in the Appendix.
3. Planning and management of national and international R&D programs on crop protection. Developed and managed ACIAR research project Hort2004-034, on diagnosis and management of banana wilt diseases in Indonesia, from 2004 to 2009.

4. Author of many reports and submissions to support registration of agricultural and veterinary chemical products and liaised with APVMA, ERMA (NZ) and ACVM Group (NZ) during the registration processes. Investigated and reported on the Biosecurity responses to the 2004 incursion of Citrus Canker in the Emerald district in Queensland.
5. Highly experienced in extension and education in Agriculture as a former senior lecturer in Plant Pathology, Forest pathology and Plant Protection at the University of Melbourne and lecturer in biological sciences at Longerenong Agricultural College.

In 2003 – 2005 provided very successful (feedback from company) two day training courses and one day workshops in plant pathology and entomology to staff of Syngenta Asia-Pacific. Countries include Australia and New Zealand, Bangladesh, China, India, Indonesia, Japan, Malaysia, Pakistan, Philippines, Taiwan, Thailand and Vietnam.

In 2009 I was re-engaged by Syngenta Asia-Pacific to develop and conduct further training workshops in 2010-2011. These workshops were designed to take key Syngenta technical personnel up to a level where they could develop their own training programs, based on materials and knowledge that I provided, plus Syngenta's own technical information resources. The two day "train the trainer" workshops were held in China, Vietnam, India, Indonesia, Bangladesh and Thailand.

6. Set up and managed a national system for minor uses of pesticides (1999 – 2003).
7. Experienced in GLP procedures for residue studies on pesticides.
8. Liaison with research agencies, including Government Departments, CSIRO, the Cooperative Research Centres, Universities, private consultants and international suppliers of pesticides and veterinary products.
9. Involved in joint Government-Industry Committees on pesticides and in developing resistance management strategies for fungicides.
10. Supervised successful PhD and MSc candidates.
11. Evaluated market potentials of new biological technologies in horticultural industries.
12. Surveyed farms for pesticide contamination.
13. Highly experienced in information technology and its applications in agriculture, including writing database applications.

Employment History

Projects 2003 - Present:

- Management of R & D projects on fertilisers, chemicals and biologicals in horticulture.
- Registration of biological control agents for crop diseases, registration submissions for veterinary and agricultural chemicals.
- Investigations of spray drift and expert witness reports on strawberry crop failures, water quality and lettuce crop failures, fertiliser leaf damage to stone fruit and cut flower crops, government responses to incursion of citrus canker in Queensland.
- Crop protection product complaints.
- Provision of training workshops in plant pathology, entomology and crop protection in the Asia-Pacific region,

- Development and leadership of a 4 year research project funded by the Australian Centre for International Agricultural Research (ACIAR) on management of wilt diseases of bananas in Indonesia and evaluation of other ACIAR research projects in Asia.
- Conducted final evaluations of ACIAR projects in Vietnam on tomato geminiviruses, banana nematodes, bioherbicides and developing disease management capacity. Also evaluated disease management projects in Indonesia and PNG.
- Invited speaker at the International conference on crop security, Indonesia (Sept 2005) and Chairman of the Chemical Control sessions at the Australasian Plant Pathology Society Conference in Geelong (Sept 2005).

1999 - 2003 Manager of Crop Protection Approvals Ltd, a company that I established as an industry owned entity to manage the national program for minor uses of pesticides. This HAL-Ausveg funded program involved organisation of more than one hundred pesticide residue trials per year in vegetable crops Australia – wide. It was implemented by CPA Research Pty Ltd a company that I established as the operational arm of Crop Protection Approvals Ltd. I also oversaw the training processes and systems development that resulted in NAATA accreditation for Good Laboratory Practice. Also wrote database applications to manage the extensive pesticide residue trial projects and to facilitate rapid generation of GLP – compliant Residue trial protocols in the program (protocol generator).

1998 -1999 Principal Consultant, commissioned by the Horticultural Research and Development Corporation and AusVeg, to set up a national program for minor uses of pesticides in horticulture.

1997-2000 Member of the Board of Directors, The Expert Foundation Ltd

1996-2001 Senior Lecturer in Plant Protection, Institute of Land and Food Resources, University of Melbourne, Parkville (permanent part-time). Subjects taught: Plant Pathology, Crop Protection (including entomology), Forest Pathology. Supervised PhD students in research projects including mint rust, pear scab, honeybee foul brood disease and grapevine decline.

1995- present: Director, TS Agricultural Consultants Pty Ltd (own company). Specialising in diagnosis of crop failures and problems in crop protection, R&D project management and evaluation, ag product development, ag and vet product registration, basic and advanced level training in crop protection, fungicides and insecticides.

Web site: <http://www.tsac.com.au>

1990 - 1995: Research Manager, fungicides, nematicides, insecticides, plant growth regulators, at ICI Australia Merrindale Research Centre, later Crop Care Australasia Merrindale Research Centre. Responsible for R&D Australia-wide. Implemented the Australian component of ICI Agrochemicals worldwide R&D program to evaluate novel crop protection fungicides and insecticides.

In cooperation with Sumitomo Chemical in Japan and Huntingdon Research Centre in the UK, conducted two major residue trials in wine grapes in the Barossa and Hunter Valleys. These were the first GLP field residue studies to be conducted in Australia.

1986 - 1989: Senior Plant Pathologist, ICI Australia Merrindale Research Centre, responsible for fungicides R&D Australia-wide.

1976 - 1986: Senior Plant Pathologist, Irrigation Research Institute, Tatura (Department of Agriculture, Victoria). Researched causes and control of fruit tree diseases, and soil-borne diseases of potato, tomato and subterranean clover. Discovered and named the cause of sub-clover root rot, *Phytophthora clandestina* Taylor, Pascoe and Greenhalgh.

1974 - 1976: Lecturer in Biological Sciences, Longerenong Agricultural College, Dooen, Victoria. Subjects taught: Plant Pathology, Microbiology, Botany, Entomology, Invertebrate Zoology.

Other Employment Activities

- Member of Avcare Fungicides Resistance Action Committee and Secretary from 1989 to 1994. From 1987 to 1995 I represented my corporate employer on the AVCARE Fungicides Resistance Action Committee (AFRAC). Initially I was Secretary, then was made Chairman in 1994. The committee comprised representatives of all the major agrochemical companies. During my term AFRAC, for the first time, published national resistance management strategies and implemented a coding system for fungicide groups, to facilitate implementation of the strategies. I was also Chairman of the Dicarboximides Working Group of AFRAC from 1989 to 1995..
- Presented papers at numerous scientific conferences, workshops and seminars. Invited speaker on chemical control of soilborne diseases at the 1993 International Congress of Plant Pathology, Montreal. Invited speaker on "Information Technology - now and in the future" at the Vegetec 2000 conference, 7-10 July 1996.
- Refereed papers for publication in scientific journals and examined theses for higher degrees.
- Developed database applications for tracking and managing residue trials programs, writing residue trial protocols, despatches of agrochemicals, cataloguing and tracking technical reports, for mailing lists, for a register of professional consultants.
- Published Plant Protection and Plant Pathology lecture notes on the Melbourne University intranet:
- Published National Minor Uses of Pesticides Program web page and made permit documents available on the Internet.

REFEREES

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PUBLICATIONS

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Registration Efficacy Reports written 1986-1995, by product, crop and target. Note: these were confidential reports submitted to the national registration authority on behalf of ICI Crop Care.

PRODUCT and AI	CROP	TARGET
Anvil <i>hexaconazole</i>	Apples Pears Grapes Peanuts	Scab, Powdery mildew Scab Powdery mildew Early & Late leaf spots, Rust
Armour flowable (formulation change) <i>flutriafol</i>	Wheat Barley	Stripe rust, Septoria Powdery mildew, Scald
Armour In-Furrow <i>flutriafol</i>	Wheat Barley Canola	Take-all, Stripe rust, Septoria Powdery mildew, scald Black leg
Impact foliar spray (rate change) <i>flutriafol</i>	Wheat Barley	Stripe rust, Septoria Powdery mildew, scald
Impact in-furrow (formulation change) <i>flutriafol</i>	Canola Wheat Barley	Black leg Take-all, Stripe rust, Septoria Powdery mildew, Scald
Nimrod <i>bupirimate</i>	Rockmelon, Mango	Powdery Mildew Powdery Mildew
Shirlan <i>fluazinam</i>	Grape Brassicas	Grey mould Club root
Sumislex <i>procymidone</i>	Faba beans Tomatoes Stone fruit (post-harvest) Onions, Garlic Lettuce Lupin Potato Pyrethrum Peanut Turfgrass	Chocolate spot Grey mould Brown rot, Transit rot White rot Sclerotinia rot Brown leaf spot, Brown leaf spot (rate reduction) Sclerotinia rot, Target spot Sclerotinia rot Sclerotinia minor, Sclerotinia rot, Leaf blotch Dollar spot, Spring dead spot, Helminthosporium
Vincit flowable (formulation change) <i>flutriafol</i>	Cereals	Smut diseases Stored grain insects
Vincit flowable <i>flutriafol</i>	Barley	loose smut - rate change for WA only
Clipper (formulation change) <i>paclobutrazol</i>	Amenity trees	Growth control

They involved collating and analysing data from published scientific papers and from in-house scientifically sound field and laboratory experiments (designed by myself) and writing reports for evaluation by the (then) NRA's panel of external reviewers. Each crop/target report was equal to at least one scientific paper.

APPENDIX

Expert Investigations Undertaken by Dr Peter Taylor

Date	Job
1996	Sulfur spray damage fresh tomatoes Vic
1996 - 1998	Litigation alleged PGR damage apricots Tasmania
1997 -1998	Litigation transmission of club root of crucifers from nursery stock to grower fields Vic
1998	Litigation transmission of vegetable disease from nursery stock to farm Vic
1999	Cauliflower black rot investigation Vic
1999	Evaluation of effects of HAL-sponsored R&D on IPM practices in fresh and processing tomato industries Qld, NSW, Vic
1999	Litigation hydroponic tomato crop sabotage Vic
1999	Litigation widespread tomato bacterial canker outbreak Victoria
2000	Litigation likelihood of transmission of field crop diseases from wheat and canola residues in imported bulk fertiliser (impounded by AQIS), SA
2001	Apple russeting investigation Vic
2001	Investigation of impact of graft transmitted virus in grapevines Vic
2001	Investigation onion seed quality impact on crops Vic
2001	Litigation virus infection of apple trees impact on yield Vic
2001	Potential litigation alleged fungicide failure pome fruit Vic
2001	Spray damage apples WA
2001-2003	Litigation beetroot root disease Qld
2002	Investigation of baby spinach crop failures Vic
2002	Investigation of dieback of amenity trees Vic
2002	Litigation export cherry spoilage Vic
2002	Litigation herbicide spray drift on organic farm Vic
2002	Litigation spray damage plums Vic
2002	Plum tree decline and dieback alleged due to nursery stock quality Vic
2004	Litigation herbicide spray drift on fruit trees Vic
2004	Litigation table grapes Vic
2005	Litigation broccoli crop failure Vic
2005	Litigation garlic crop failures SA
2006	Investigation of potato spindle tuber viroid in hydroponic tomatoes, WA
2006	Litigation export table grape spoilage Vic
2007	Evaluate Biosecurity responses to Citrus Canker Incursion, Emerald, Queensland
2008-2012	Litigation Strawberry crop failure Vic/SA
2008	Investigation of widespread lettuce crop failures, Werribee, Vic
2008	Litigation Spray damage pears Vic
2009	Nutrient spray damage to ornamental flowers Vic. Cereal and canola crop failures NSW.
2010	Litigation fertiliser for various field crops NSW
2010	Litigation canola and wheat NSW
2010	Alleged spray damage nectarines
2011	Litigation tomatoes alleged crop monitoring failure, Vic
2011	Fusarium nivale incursion watermelons NT
2012	Investigation amenity tree mortality Vic
2012	Litigation canola herbicide spray damage Vic
2012	Litigation fungicide spray damage to Avocados Qld
2012	Litigation canola herbicide damage, Lara, Vic
2012	Litigation extensive occurrence of Penicillium Storage Rot of Packham Pears
2013	Litigation canola herbicide damage, Carisbrook, Vic
2013	Litigation strawberry crop failures, WA