



20.06.2024 Curriculum Vitae

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Current Business Role: Technical Director  
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**General background and qualifications:**

**Please note:** Copies of certificates and proof of listed appointments are available.

2024 – stakeholder appointment to Massey University Centre for Public Health Research Study into the health effects on the children and grandchildren of Vietnam Veterans

2024 – Engaged to provide a report into the health effects of dioxin from the agricultural use of 2,4,5-T in relation to ACC claims for terminal prostate cancer as work related conditions.

2024 – Engaged to review the potential for development of Parkinson’s Disease resulting from exposure to toxins in fire effluent including carbon monoxide in relation to ACC claims for work related conditions.

2023 – Re-elected President Hazardous Substances Professionals (HSPNZ) Inc. and Health and Safety Associations NZ (HASANZ) Inc. Governance Group.

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2023 – Appointed to the hazardous substances development panel at Toitū Te Waiora Workforce Development Council to progress Skills Standards in this field.

2023 – Doctor of Professional Practice expression of interest accepted by Otago Polytechnic | Te Kura Matatini ki Otago (formerly Te Pūkenga – New Zealand Institute of Skills and Technology) to study Firefighter and Emergency Service First Responders and NZ Defence Force Qualifying Operational Service for deployments to emergencies in NZ and the case for Medical Condition Presumption.

2023 – Contracted to Otago Polytechnic as a Work Based Learning Assessor at post grad level in specialist fields of Health & Safety, Emergency Management and Risk Assessment.

2023 – With the UFBA submitted to MBIE at the Minister’s request on proposed changes to ACC Schedule 2 for work related medical conditions to align better with latest international research.

2022 – Invited to join the Permanent External Advisory Committee (PEAC) Otago Polytechnic Capable NZ.

2022 – Elected President Hazardous Substances Professionals (HSPNZ) Inc.

2021 - 2022 – Appointed as toxicology / health subject matter spokesperson to the Vietnam Veterans / RNZRSA Working Group to progress negotiations with government for continued recognition of health issues resulting from Agent Orange. Elected to the Executive Committee of the NZ Vietnam Veterans Association (NZVVA).

2021 – With two partners in NZ and Canada incorporated a training company to deliver online courses in chemical and health and safety management through Socratic Dialogue concepts using virtual and augmented reality technology on a Thinkific and Brillium, LMS and proctoring platforms respectively. As at 2023/24 Concepts and platform elements have undergone significant further changes with the development of our own proprietary LMS and assessment platforms.

2020 – Graduate Diploma in Professional Practice (GDPP) with Distinction. Focussed on adult education NZQA Level 6; 120 Credits.

2020 – Undertook 3D High Definition Photogrammetry of University of Otago Mellor building chemistry teaching laboratories for GDPP e-learning project chemical laboratory compliance.

2019 – Audited LandCare Research and Ministry of Primary industries laboratories.

2019 - Conference Speaker Safety360 (Conferenz) and 2020 by Zoom.

2019 - Presenter Brightstar – hazardous waste, managing hazardous substances and laboratory compliance.

2019 – Expert Witness for Invercargill case.

2019 – Engaged by the Timber Treatment Industry and Distilleries Aotearoa Inc. to progress exemptions and legislative amendment changes including s.220 of the Health and Safety at Work Act 2015 and to develop draft Safe Work Instruments (SWI) respectively where compliance for these industries with the Regulations as written was not possible.

2018 - Conference Speaker Lab Innovations & Excellence (Conferenz).

2018 - Joint Venture agreement signed with The Learning Place Ltd to provide online training in the management of chemicals to the Health and Safety at Work (Hazardous Substances) Regulations 2017: Part 5 – General Industry and Part 18 – Laboratories. Relationship since dissolved amicably due to The Learning Place Ltd change in corporate direction to address increased secondary school demand and online workload due to Covid-19.

2018 - Appointment as a representative of the southern group of Territorial Local Authorities to the Environmental Protection Authority (EPA).

2018 - My approvals as a Compliance Certifier expired and were cancelled 29th May. In correspondence with the WorkSafe New Zealand; Compliance Applications and Registrations (CAR) Team Manager Adrian Straayer at that time I received the following: *“We recognise your experience and commitment to the sector and would like to continue to engage with you as a hazardous substances consultant promoting health and safety.”* Apparently I *“used too much common sense and discretion”* in determining compliance against the (very) prescriptive regulations and despite the acknowledgment on questioning that *“no decision of yours has caused harm to persons or the environment.”*

2017 - I achieved the degree of Master of Professional Practice (MPP) with Distinction in IT Design – Software as a Service (SaaS). NZQA Level 9; 180 Credits. The project covered the risk and emergency management of hazardous chemicals compliant to Part 5 of the Regulations, and Regulation 14 of the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 and to equivalent international controls.

2017 – Engaged by Antarctica New Zealand to review compliance at Scott Base and the Hot Water Drilling Project; Traverse of the Ross Ice Shelf by Victoria University and of the USAP Base at McMurdo. Co-developed the HSWA s.220 Exemption for use of fuels in Diesel engines by Antarctica New Zealand. AN8 – aviation turbine fuel because Diesel is not suitable.

2017 – Expert Witness for court case in Christchurch agrichemical hazardous substance compliance.

I have critiqued and submitted on all regulatory changes from 1990 to the present including Major Hazard Facilities (MHF's). I have a thorough understanding of the legislation and, as importantly, the history behind it because of regulatory controls not being transferred to new regimes in full or with errors. Currently responding both personally and through HSPNZ submitting on H&S legislation and administrative changes in response to ministerial roadshow request.

2017-2018 - Director of Compliance Certifiers Ltd a continuation of the framework concept enabling the certifier directors to contract for national business. Relinquished directorship to avoid conflict of interest limitations (Regulation 6.22) on certifiers engaged in consulting and training.

2016 - Conference Speaker Safety360 (Conferenz).

2009 – Expert Witness HSNO Prosecution – the only one ever taken.

2008 - Appointment as a member of the Ministry for the Environment (MfE) Test Certifier Review Advisory Group for a term of 1 year.

2006 - The development in Moodle® of a HSNO Approved Handler certification renewal e-learning project. That service continued till transfer of the HSNO Regulations in 2017. Courses addressed all hazardous substance classes including agrichemicals that triggered the requirement for the 5-yearly re-certification. Original approvals were through face to face courses generally to Unit Standard 20645 – Knowledge of HSNO and conducted by most Test Certifiers (now constrained by Conflict of interest in the 2017 Regulations).

2004 - Commencement of HSNO, my position disestablished from the Dunedin City Council and the incorporation of my company Envirocom (NZ) Limited.

2004 – 2016 Director HSNO Trainers & Test Certifiers Ltd a framework company enabling a group of certifier directors to contract for national business.

2004 – University of Otago Post Graduate level HAZX405 Toxicology, Grade A+.

2003 & 2006 - GrowSafe Introductory: Agriculture ITO.

2002 - Approved by the Environmental Risk Management Authority (ERMA) as a Test Certifier. This approval continued through the Environmental Protection Authority (EPA) and WorkSafe New Zealand administration of HSNO and the transfer of the HSNO Regulations to the Health and Safety at Work Act 2015 until 2018.

2002 - Assigned the 'Instrument of Delegation' by ERMA to act as the DG Licensing Authority for Dunedin City.

2002 - OSH Dept of Labour Certificates of Achievement and Proficiency.

2001 – University of Otago Post Graduate level CHEM467 Management of Chemical Hazards, Grade A+.

2001-2006 Contracted to DoL / OSH as a HSNO warranted enforcement and training officer.

2001- to-date though no meetings have been held for a year or two: Appointed as an advisor to the Humanities Faculty, Board of Studies University of Otago for the Hazard Assessment and Management (HAZA) Papers – continuing. The individual papers are still available but can no longer be put towards a Post Grad Certificate or Masters' qualification.

2001 - 2004 Appointed to the Ministry for the Environment (MfE) High Level Working Group for the Coordination of HSNO Commencement representing Territorial Local Authorities. Nominated for the MfE Green Ribbon Award.

1999-2001 & 2004-2007 Branch Councillor Institution of Fire Engineers (IFE) NZ Branch. Conference organiser.

1999 – 2004 Special advisor to the Minister for the Environment the Hon Marian Hobbs in the Labour government of the day on HSNO matters.

1998 – Expert Witness arson case.

1998 - OSH Dept of Labour Certificate of Attainment for Dangerous Goods Inspectors.

1998 - Appointed to the ERMA 'Ad-hoc Committee for the Commencement of HSNO' (Hazardous Substances and New Organisms Act and Regulations) alongside representatives of other HSNO s.97 Enforcement Agencies including Maritime Safety and Civil Aviation.

1996 – 2004 President NZ Institute Hazardous Substances Management (NZIHSM) and Editor of that professional organisation's publication 'Flashpoint' and conference organiser including joint NZIHSM / IFE conferences.

1994 – 2004 On-call Member NZ Fire Service chaired Hazardous Substances Technical Liaison Committee (HSTLC) & NZ Police chaired Emergency Service Co-ordinating Committee (ESCC).

1996 - Local Govt NZ / Shell Oil NZ Ltd Scholarship to study Marine Oil Spill Response; 6 months UK & Europe including UK Coastguard Agency Marine Pollution Control Unit (MPCU) course and Masters' level course in Explosion Prediction & Mitigation at the University of Leeds.

1993 - Members papers The Institution of Fire Engineers UK (IFE) – Aero Fire Studies, Fixed Installations, Building Construction.

1991 - Appointed to the position of Senior Inspector of Dangerous Goods and multi-skilled building compliance officer Dunedin City Council.

1981 - Member examination; IFE – 5 papers.

1979 - Graduate examination; IFE – 4 papers & NZ Fire Brigades Institute Member by examination – 2 papers.

1977 - University of Otago Man & Environment MATE1: Grade B-.

11 years as an operational Fire Officer with the NZ Fire Service (now FENZ) 1974-1985.

1972-1974 - Army reserve time transferred to the Royal NZ Navy HMNZS Toroa.

It has been pointed out to me by a colleague who retains a few more memory marbles than I obviously have left that my previous entries in this 50 + year old history of mine was a bit cheeky, flippant and likely misleading. The record has now been expanded and corrected.

I served in the NZ infantry with course qualifications in training as a combat medic, explosives specialist, and signal handler before serving with V6 Company in 1971 with 1st the Royal New Zealand Infantry Regiment | 4th the Royal Australian Regiment during the Vietnam war.

1970 - Diving Instructor for the Combined Services recreational diving club and dive trip organiser and participant. Informal membership of maybe 20 was open to all, NZ services and some civilians and personnel from other nation's services including members of the Royal Marine Commandoes Special Boating Section (SBS) whom I met while on an informal familiarisation attachment.

Joined the Combined Services recreational skydiving group progressing to freefall and only long enough to get over my fear of heights, an attribute which later served me well in the NZ Fire Service for ladder and abseiling training.

1969 - Commercial fisherman and diver Chatham Islands. Well before PADI I trained as a SCUBA diver with the Timaru club from age 16-19 where the instructor, a second cousin of mine was an ex Royal NZ Navy Diver. It remained a recreational hobby till the early '80's and helped during my Fire Service career as a Breathing Apparatus (BA) cylinder filler and tutor. I continue to assess FENZ BA cylinder filler's exam scripts and currently advise FENZ on training protocols against the legislative requirements of Section 15 of the hazardous substances regulations.

1963 – '67 - Timaru Boys High School 1966 School Certificate.