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PROFESSIONAL QUALIFICATIONS: BSc Bachelor of Science - Industrial Chemistry; UNSW, 1972
MAppSc Master of Applied Science - Environmental Pollution Control; UNSW, 1975

COMMITTEE MEMBERSHIPS: (while employed by Tasmanian Public Service)
Executive Officer - State Marine Pollution Committee
Executive Officer - Bell Bay Environmental Baseline Monitoring Program Steering Committee
Departmental Representative - Northern Region Disaster Planning Group
Chairman - Technological Hazards Subcommittee of the NRDPG
Departmental Representative - North West Region Disaster Planning Group
Departmental Representative - Tasmanian Hazardous Materials Management Committee
Departmental Representative - Tasmanian Agricultural Productivity Group
Departmental Representative - Aerial Spraying Implementation Group
Chairman, Atmosphere Reference Group for the preparation of the Tasmanian State of the Environment Report
Team Leader - Division of Environmental Management Enterprise Bargaining team
Tasmanian Representative - National Pollutant Inventory (Air Pollution) Working Group
Inaugural Chairman - ANZECC Working Party on Marine Debris
Tasmanian Representative - ANZECC Working Party on Waste Management from Shipping and Boating
Tasmanian Representative - ANZECC Maritime Accidents and Pollution Implementation Group
Tasmanian Representative - ANZECC Anti-foulant Task Group

COMMITTEE MEMBERSHIPS: (Other)
Elected Co-Chair and Public Officer - **WILDCARE Inc** - 1998-2006
Director and Public Officer - Volunteering Tasmania - since 09/05
Director - Volunteering Australia - since 04/06
Director - National Trust of Australia (Tasmania) - appointed 03/07

SPECIALIST and MANAGEMENT COURSES:
Australian Mineral Foundation - 7th Groundwater School (10 day live-in)
Bruce College of TAFE - Air Photo Interpretation (24 week P/T)
Scientific Methods Inc. - Grid Management Seminar (5 day live-in)
Kepner - Tregoe - Problem Solving & Negotiation (5 day live-in)
Australian Institute of Management - Effective Meetings and Negotiating Skills (2 day F/T)
Australian Institute of Management - Project Team Management (2 day F/T)
School of Civil Engineering, UNSW & School of Chemical Engineering, Uni of Q Management of Hazardous, Toxic and Intractable Wastes (5 day live-in)

Tasmania Fire Service - Introductory Breathing Apparatus (1 day)
Tasmanian State Emergency Service - Introduction to Emergency Management in Tasmania (5 day live-in)
Australian Maritime Safety Authority - Scientific Support Co-ordinators' Workshops - HMAS Cerberus, Perth, Adelaide and Sydney - each 5 days live-in
Australian Maritime Safety Authority - Contingency Planning Workshop - Burnie - 5 day live-in
Australian Counter Disaster College - Hazard Analysis Workshop (5 day live-in)
Australian Maritime Safety Authority On-Scene Co-ordinators' Workshop - Geelong - 5 day live-in
Australian Counter Disaster College - Exercise Management Workshop (5 day live-in)
Key Centre for Mines - Environmental Geology Short Course (5 day live-in)
International Winter Environmental School 1997 - Practical Environmental Auditing (2 day full-time)
International Winter Environmental School 1997 - Implementing an Environmental Management System (3 day full-time)

CAREER HISTORY:

December 1996 – current

Self-employed Environmental Consultant

From March 1998, I have been supplying mapping and database applications to a number of Landcare-based organisations throughout Tasmania. Part of this work has been the development, distribution and deployment of Access databases to collect and manage on-going vegetation monitoring and the tracking of government funding for revegetation programmes. This work is on-going but limited by funding cycles. I have also, since June 2000, undertaken contracts for and through the Tasmanian State Emergency Service to reanalyse, co ordinate and basically rewrite Emergency Risk Management Documents for municipal and corporate clients. A major by-product of this work is the development of an Access database to audit the complex interaction between sources of risk, elements at risk and actions required to be taken to mitigate the effects of those risks.

Between June 2003 and the present, I have undertaken contract work for a number of port operators, port facility operators and port service providers developing security plans as required by the ISPS Code (under the SOLAS Convention) and the *Maritime Transport and Offshore Facilities Security Act 2003*.

I am currently engaged in database development and implementation for managing dangerous goods as required by the *Dangerous Goods Act 1998*. Additionally, I have been engaged to carry out environmental monitoring utilising mobile mapping applications for a major development.

March 1993 - December 1996

Department of Environment and Land Management, Tasmania

Position: Marine Pollution Officer - State Oil Pollution Control Officer - Manager, Bell Bay Environmental Baseline Program

Responsibilities:

Manage the scientific aspects of studies to determine the existing environmental health of the Bell Bay Region;

Liaise with principal consultants;

Develop proposals for further studies, including negotiation with potential consultants;

Install and maintain field instruments;

Develop and maintain databases of gathered data;

Respond to complaints of oil spills, both marine and land-based, and act as the State Oil Pollution Control Officer under the National Plan to Combat Pollution of the Sea by Oil;

Liaise with the Australian Maritime Safety Authority and the Australian Marine Oil Spill Centre on oil spill matters;

Prepare and exercise contingency plans for oil spill response around the state;

Prepare briefing papers for the Minister on appropriate matters;

Implement the provisions of the MARPOL 73/78 convention for ship-sourced pollution - specifically to assist ANZECC in its implementation of the Maritime Accidents and Pollution Action Plan and Strategy;

Act as Executive Officer of both the State Marine Pollution Committee and the Bell Bay Environmental Baseline Monitoring Program Steering Committee.

April 1989 - March 1993

Department of Environment and Planning, Tasmania

Position: Chief Scientific Services Officer - State Oil Pollution Control Officer

Responsibilities:

Manage the Scientific Services Branch of the Division of Environmental Management which included the analytical laboratory located at the University of Tasmania;

Develop monitoring programs to measure the impact of human activity on various spheres of the environment;

Investigate complaints of alleged environmental infringements from both scheduled and non-scheduled premises;

Investigate incidents resulting from traffic accidents *etc* leading, or likely to lead, to environmental contamination;

Assist in the investigation of complaints regarding the application of agricultural chemicals from planes and tractors *etc*;

Respond to complaints of oil spills, both marine and land-based, and act as the State Oil Pollution Control Officer under the National Plan to Combat Pollution of the Sea by Oil;

Liaise with the Australian Maritime Safety Authority on oil spill matters;

Prepare and exercise contingency plans for oil spill response around the state;

Plan local training exercises for oil spill response;

Administer the 3Com Local Area Network for the Division of Environmental Management;

Direct and control staff involved in the above duties;

Liaise with other Government Departments in the investigation of complaints and incidents;

Provide advice to relevant authorities on clean-up procedures and disposal for hazardous materials.

December 1984 - April 1989

ACT Parks and Conservation Service

Position: Manager - Analytical Services

Responsibilities:

Conduct investigations into and advise on environmental effects of land management practices including the use of agricultural chemicals and new products of a chemical or biological nature.

Investigate chemical aspects of plant and wildlife nutrition and survival as part of multi-disciplinary teams;

Design investigations, manage their conduct, interpret and report the results, assemble and manage multi-disciplinary project teams;

Direct and control staff engaged in laboratory experiments supporting the above projects;

Program and plan experiments undertaken by the laboratory to meet recognised standards and maintain the laboratory as an operational unit.

February 1983 - November 1984

Professionally unemployed

September 1978 - February 1983

Woodlawn Mines Joint Venture, **TARAGO**

Position: Environmental Superintendent

Responsibilities:

Develop monitoring programs for air, noise and water pollution and occupational health exposures to satisfy relevant regulatory authorities and afford the Joint Venture adequate warning of potential breaches of licence conditions;

Prepare, submit and control the \$2M budget for the monitoring and rehabilitation of the Joint Venture's operation;

Liaise with Government Departments at high levels to determine licence and approval conditions;

Develop and implement a computer-based records storage and analysis system;

Develop the long-term rehabilitation program;

Initiate and control the on-going revegetation and rehabilitation of disturbed areas;

Develop revegetation trials on tailings, waste rock and pit faces;

Research problems at similar mining operations to ensure that adequate control and rehabilitation measures were being used;

Liaise with pastoral neighbours affected by the operations of the Joint Venture and negotiate satisfactory settlement of complaints;

Negotiate and liaise with consultants to ensure that interpretation of results from monitoring programs was based on sound and verifiable measurement and management techniques;

Prepare and present briefing papers to the Joint Venture partners and Government bodies;

Prepare and present papers to industry conferences;

Prepare contingency plans for responding to environmental incidents such as tailings dam failure.

February 1977 - September 1978

NSW State Pollution Control Commission

Position: Scientific Officer - Botany Bay Study Group

This Study Group was established with a limited grant and the specific task of studying pollution in the Georges River / Cooks River / Botany Bay area.

Responsibilities: As a member of this group:

Establish a small instrumental laboratory for the analysis of samples of water, sediments and biota from the area;

Design experiments to measure specific pollutants and identify their sources and prepare reports;

Co-ordinate monitoring programs required for the various projects being undertaken by the multi-disciplinary group to ensure maximum efficiency in the utilisation of resources;

Liaise with other Government Departments to ensure co-ordination of similar projects.

April 1975 - February 1977

Cablemakers (Australia) Pty Ltd

Position: Chemist

Responsibilities:

Establish a small instrumental laboratory to investigate insulation and sheathing compounds used by competitors and ensure quality control of in-house compounds.

February 1974 - April 1975

Self-supported full time student at UNSW completing MAppSc in Environmental Pollution Control with thesis topic of "Computer Simulation of Marine Sewage Outfalls".

January 1963 - February 1974

CSR Chemicals Ltd

Position: Various - started as Junior Chemist and progressed through Senior Day Analyst, Assistant Head Chemist (Lane Cove Factory), Laboratory Manager (Rhodes) to Technical Services Officer.

Responsibilities:

Varied greatly, depending on position:

As Technical Services Officer:

Resolve customer complaints related to real or perceived problems with materials manufactured or supplied by CSR Chemicals, including the assessment of compensation if applicable;

Prepare and disseminate technical information to customers;

Prepare and present technical papers to professional bodies and industry conferences;

As Laboratory Manager:

Oversee laboratory management including supplies, rosters, training, commissioning of new instruments, development and verification of new analytical techniques.