

# FREDERIK SALOME B.SC.(HONS.),

## CURRICULUM VITAE

CTI CONSULTANTS PTY LTD

ABN 56 003 824 815

JANUARY 09

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### QUALIFICATIONS & TRAINING:

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B.Sc. (Hon), Sydney University, 1973 (Major - Organic Chemistry)

Supervisor/Competent Person - Deleading of Industrial Structures, SSPC (US), 1995

Corrosion Technology Certificate Course – Australasian Corrosion Association, 2001

Certified NACE Coatings Inspector No. 8662, NACE International (US), 2002

NACE Marine Coating Inspection; 2007

NACE Protective Coating Specialist

Instructor, NACE Coatings Inspection Program.

Senior First Aid Certificate; Boat Driver's Licence  
Sydney Water Contractor Confined Space Training

Electrical Safety Rules and Substation Entry

NSW Track Safety Awareness

NSW Workcover General Induction for Construction Work No.CGI00796607SEQ1

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### EMPLOYMENT:

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#### CTI CONSULTANTS PTY LTD

Director (October 1989 to Present).

#### VESSEY CHEMICALS PTY. LTD

Technical Manager, 1987 - 1989

National Sales (Mining Industry), 1985 - 1987

Chief Chemist/Production Mgr, 1982 - 1985

#### BERGER JENSON & NICHOLSON LIMITED

Special Projects; 1982

Development Chemist, Marine and Heavy Duty Coatings Laboratory (British Paints); 1979 to 1982

Section Leader, Central Research Laboratories; 1977 to 1979

Chemist - Resin Production and Development (Berger Paints); 1975 to 1977



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### EXPERIENCE:

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#### *Protective Coatings Technology*

Coating recommendations, specifications and supervision.

Product evaluation, condition assessment, corrosion surveys and failure investigations; eg. Sydney Harbour Bridge, Darling Harbour Exhibition Centre, Newcastle Queens Wharf Observation Tower, Sydney Airport Control Tower, Queensland Correctional Centres (Wacol, Woodford), Eden Load-Out Jetty, Circular Quay International Passenger Terminal, Manly Ferry Wharf, Waste Water Aeration Tanks at Caltex Kurnell, Steel water reservoir for Hunter Water Corp.; Catwalk trusses of jetty for Pt Kembla Ports Corp; Pylon Signs for Sundowner Motor Inns.

Coating Inspection on numerous projects; Docklands Stadium (for International Coatings at Transfield, NSW, 1999); Atlas Copco mining equipment (1998); Olympic Velodrome (for Concrete Constructions, 1999); Northpower Stadium, Gosford (Abigroup, 2000); Vincentia Bay & Basin Leisure Centre (Shoalhaven Council, 2000), Internal Lining - Water Reservoirs, Eurobodalla Council (2000), Aldi warehouse at Minchinbury (2001) and Derrimut (2002), Sydney Aquarium OC2 (2002/03); Walsh Bay 2/3 pile replacement, Waterway Constructions (2002), Illawarra Wastewater Project, Walter Constructions (2004).

126 Philip Street Roof Feature (BLL, 2005), Cranes for Azerbaijan Oil Compy (2003-2006), Port Waratah Coal Services 8000tph Stacker (2006-2007), Warragamba Dam and Pipeline Coating Assessments and Inspections, 2003 to present.

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#### Head Office

PO Box 153,  
North Strathfield NSW 2137  
Ph: (02) 9736 3911  
Fax: (02) 9736 3287

#### Victorian Office

24 Verene Avenue,  
Lower Templestowe Vic 3107  
Ph/Fax: (03) 9850 7407  
Mobile: 0413 126 753

#### SE Australia Regional Office

16 Orkney Court  
Moama NSW 2731  
Ph/Fax: (03) 5482 2686  
Mobile: 0419 337 406

Formulation and development of specialised protective coatings including anti-fouling paints, waterproofing membranes and treatments and epoxy compounds.

Assessment and development of protective coating strategies for concrete.

Lead paint investigations, hazard identification, environmental monitoring and management or removal techniques.

### **Production Management**

Manage laboratory, factory and warehousing for production of heavy-duty coatings for Vessey Chemicals. Supervision of 25 staff. Responsibility for handling and storage of raw materials including hazardous solvents, pigments and peroxides.

### **Product Development**

Extensive experience in the development and implementation of synthetic polymer technology and heavy duty coatings.

Formulation, development and assessment of epoxy floor coatings and compounds.

Conducting full-scale production trials and monitoring regular resin production, together with involvement in plant modifications and process design.

### **CORROSION**

**Corrosion of Bridges and Tunnels** - Site surveys and inspection of steel bridges in coastal environments for the Roads and Traffic Authority, Vanuatu Dept. Public Works. Advice on stainless steel side wall anchors and dowel, Burnley Tunnel (Pells Sullivan Meynink), Stainless steel in Energy Australia cross-city tunnel (PSM). Corrosion and steel survey, Iron Cove Bridge (NSW RTA)

**Corrosion of Buildings** - Survey of steel framed historic building, (YMCA Pitt St, Sydney, for National Project Consultants). Corrosion investigation of anodised aluminium façade panels, Burke Place, Melbourne (Remedial Engineering). Survey and repair recommendations, below water plant room, Woolloomooloo Finger Wharf (Multiplex).

**Corrosion Rate Study** - Study of long term corrosion rates of concrete and steel in sewers for Australian Water Technology (Sydney Water).

**Corrosion of Ground Anchors** - Inspection and corrosion survey of sheet pile wall and ground anchors, Port Botany Bulk Liquids Terminal, Sydney Ports.

**Cathodic Protection** - Corrosion survey, design and commission of cathodic protection systems, Port Botany Bulk Liquids Terminal, sheet pile wall, Sydney Ports, and Scratchley's Wharf, Hunter River at Newcastle (Waterway Constructions), Goodwood Wharf (TLB)

**Corrosion Of Water Pipes** - Investigation and survey for corrosion of chilled water pipe and associated equipment, Wentworth Hotel (City Freehold).

**Non-Ferrous Corrosion** - Investigations of corrosion of aluminium heat exchangers in radio transmitters

(Comsys). Investigation into durability of anodised aluminium in hospital environment, Townsville Hospital (John Holland Constructions). Investigate failure of PVC hoses, Southern Copper (Eptec Pty Ltd). Advice on use of dissimilar metals for expressway cladding, Transfield Constructions.

**Sundry Corrosion Investigations** - Investigate corrosion of filing cabinets (Emmanual Global). Inspection of galvanised water tank (Knight Frank). Corrosion of Liquid Waste Road Tanker (Tahara). Investigation of durability of lift frame in a coastal setting (private client). Assessment of durability of rock bolts (Ostaline). Investigation of dissimilar metal corrosion (stainless steel and mild steel) in aerated water tanks, Caltex Kurnell.

### **CONCRETE PROTECTION AND REPAIR**

**Coastal Bridges And Structures - Condition Surveys** - Site surveys and concrete testing to determine the condition of concrete bridges and structures in coastal environments for the Roads and Traffic Authority, Sydney Ports Authority, Hunter Port Authority, Newcastle City Council, Wyong Shire Council, Wollongong City Council, Eurobodalla Council, Bega valley Shire Council and Shoalhaven Council, Coleambally Irrigation, Vanuatu Dept. Public Works, Laos Dept. of Transport.

**Concrete Repair** - Investigation, specification and supervision for repair of commercial and industrial buildings, bridges, floors, pavements and other structures. Development and evaluation of repair products and systems. Assessment and repair of magnasite-induced corrosion and corrosion of balconies on coastal buildings.

**Repair Recommendations And Specifications** Prepare repair specifications and contract documentation for a range of clients including NSW Public Works Opera House Upgrade, Newcastle Council (City Administration Centre, Car-Parks, Surf Pavilions and bridges), NSW Housing, VicRoads, Melbourne City Council, Delta Electricity, Pitt and Sherry (for Transport Tasmania) and many private organisations.

**Investigation Into Cracking In Concrete Railway Sleepers** - Investigate failure and evaluate mitigating treatment for concrete railway sleepers; Westrail.

**Silanes And Durability Of Concrete** - Investigation into the role of silanes in the long term durability of concrete. This involved carrying out survey of published literature and available products, and formulating a laboratory test procedure for screening water-repelling treatments, for the Roads and Traffic Authority of NSW.

**Specifications** and a field guide for use of personnel RTA on silane impregnation have also been prepared.

**Waterproof Membrane; Sydney Harbour Tunnel** - Product development of waterproof coatings and specialised concrete testing for the immersed tube units, selection of paints and coatings for interior surfaces.

**Assessment of Masonry Facades, Sydney Harbour Bridge**, for NSW RTA, 2004-05.

**Presentations** at Concrete Repair and Water-Proofing Seminars (BRC, CIA, ACA, BCCA) & Austroads Bridge Conferences.

## **LEAD PAINT MANAGEMENT**

Assessments of numerous domestic dwellings for lead in paint and dust, for private individuals, Councils and Govt. Departments, and devising sampling protocols for such surveys. Assessments of public schools for lead in paint and dust, for the NSW Department of Public Works and the Sydney Aircraft Noise Insulation Project.

Attendance at a Industrial Lead Paint Removal Tutorial and Conference, conducted by the US SSPC, in Cincinnati, March 1993 and Chicago 1995. Qualified as a *Supervisor/Competent Person for Deleading of Industrial Structures*.

Participation in Value Management Study into RTA strategy for managing lead paint removal from bridges (1993), and assisting the RTA on environmental monitoring on such projects. Participation in VM Study for Grafton Bridge (jointly organised by RTA and NSW State Rail Authority, 1996).

Participation of the Lead-in-Paint Working Group of the NSW Govt. Interdepartmental Lead Taskforce (representing the LEAD Group), 1993/94.

Member of Standards Australia Committee CH/3/11, *Lead Paint Management*, 1996/98.

Chairman of CH/3/11, December 2004.

Contract administration of lead paint removal from road bridges for the Tasmanian Department of Transport, to design, implement and review the environmental monitoring program (1995, 1996-7, 1997-8 and 1998-9).

Participation in Panel Discussion on Lead Paint Removal at the NSW BCCA Industry Forum, September 1994. Presentation at BCCA National Conference, Gold Coast, August 1997.

Presentation at various seminars and conferences on the subject of lead paint removal from structures.

Workshop Leader, one-day workshops on Environmental and OH&S Monitoring for Lead Paint Removal, Australasian Corrosion Association, Adelaide December 1994, Launceston, Melbourne, Brisbane and Perth, 1995.

Attendance at Commonwealth EPA Meeting of Experts to discuss advise to community on lead in paint (1995).

Presentation of training workshop Managing Lead Paint In Old Buildings to ACT Asset Management Services, August 1995.

Contributor - Environment Australia Booklet Lead Alert – 6 Step Guide to Painting your Home.

Co-presenter, Lead Paint Management training course, developed jointly with the Macquarie University Graduate School of the Environment. (April and October, 1996 to October 1998).

Presenter, Responsible Person for Industrial Lead Paint Management course, endorsed by the Blast Cleaning and Coating Association of Australia as meeting the training requirements under PCCP Class 5 accreditation (1999 ongoing).

Consultancy to NSW Roads and Traffic Authority regarding management of lead-paint bridges, with special emphasis on environmental monitoring and development of specifications (ongoing).

Review and up-dating of lead-paint management specifications for Australian Water Technology, reservoir roofs, pipe bridges and aqueducts (1998 ongoing).

Lead survey and advice of environmental and OH&S aspects of demolition of oil storage tanks, BP Oil, Waverton.

Policy development and presentation of training workshops; lead paint management, National Transmission Agency.

Review and up-dating of lead-paint management specifications for Queensland Department of Main Roads.

Provision of environmental monitoring services and general consultancy, various lead paint management projects (road and railway bridges, weirs, pipelines, dam-gates, high rise buildings).

Monitoring lead in paint, lead in soil, lead in dust and air quality for TSP dust and lead, proposed or functioning child-care centres and public buildings (numerous locations).

## **ENVIRONMENTAL INVESTIGATIONS**

Determination of background environmental lead levels at Ryde Bridge for the NSW Roads and Traffic Authority. This project included design of the background sampling program and carrying out all required monitoring (water, air, soil sediments and surface dust) covering a total period of twelve weeks.

Environmental lead monitoring (soil, work-space air and river water) and co-ordinating occupational health training and monitoring, lead paint removal from Macrossan Railway Bridge over the Burdekin River, Qld. and bridges at Two Wells and Clare, SA (Southern Steeplejacks Pty Ltd) 1993-97.

Environmental lead monitoring (soil, work-space air and river water) and co-ordinating occupational health training and monitoring, lead paint removal from Macrossan Railway Bridge over the Burdekin River, Qld. and bridges at Two Wells and Clare, South Australia (Southern Steeplejacks Pty Ltd).

Environmental lead monitoring (soil, ambient air, sediment and surfaces) during lead paint removal from Tempe Railway Bridge over the Cooks River in Sydney (Wilson Welding Pty Ltd, contractor to NSW State Rail) 1994.

Environmental lead monitoring (soil, ambient air, sediment and surfaces) during lead paint removal from Alexandria Railway Bridge over the Fitzroy River at Alexandria, Qld. (Wilson Welding Pty Ltd, contractor to Queensland Rail) 1998.

Environmental lead monitoring (soil, ambient air, sediment and surfaces) and co-ordinating occupational health training and monitoring during lead paint removal from Antigua Railway Bridge over the Mary River at

Maryborough, Qld. (Diamond Protective Coatings, contractor to Queensland Rail) 1999.

Environmental lead monitoring (soil & sediment) and co-ordinating occupational health training during lead paint removal from Charles Creek Railway Bridge at Chinchilla, Qld. (Thomas Coatings, contractor to Qld Rail) 1999.

Soil Contamination and remediation study, HMAS Creswell (Defence Housing Authority, 2004-05).

Environmental lead monitoring (soil & sediment) and co-ordinating occupational health training during lead paint removal from Albert River Bridge in South Gippsland, Vic. (Thomas Coatings, contractor to Vicroads) 1999.

Environmental lead monitoring (soil & sediment) and co-ordinating occupational health training during lead paint removal from Merri River Bridge at Warnambool, Vic. (TPC Painting Contractors, contractor to Vicroads) 1999.

Environmental lead monitoring (soil, ambient air, sediment and surfaces) and noise monitoring, during lead paint refurbishment from Border Bridge over the McIntyre River at Goondiwindi. (Gardner Perrott, contractor to Queensland Main Roads), 1999.

Continuing consultancy to Roads and Traffic Authority of NSW for environmental aspects of removal of lead paint from bridges, including surveys for lead in paint, environmental monitoring programs, OH&S monitoring, waste management and design of training courses.

Isotopic fingerprinting to determine sources of lead contamination in the environment, and lead bioavailability studies. This ongoing project involves extensive liaison with the CSIRO.

Contract administration for Tasmanian Dept. of Transport lead paint removal contracts, including design of monitoring strategies, review of results, carrying out site audits, monitoring medical surveillance and advice on waste disposal, as well as coating inspection; Jan. to July, 1995, 1996/97, 1997/98 and 1998/99.

Monitoring lead in paint, lead in soil, lead in dust and air quality for TSP dust and lead, proposed or functioning child-care centres, public buildings and private residences (numerous locations).

#### **CONTAMINATED LAND/SEDIMENT**

Investigation into heavy metal pollution at Cockatoo Island Dockyard, involving review of historical records and industrial processes with emphasis on the role of anti-fouling paints and other coatings as sources of contamination, and conducting sampling of soils and sediment with subsequent sample preparation and arranging analysis and quality assurance.

Contamination study at a vacated industrial site, Blacktown, including organic, inorganic and heavy metal contaminants; project management and supervision of site remediation.

Soil Contamination and remediation study, South Head Signal Station (NSW Maritime, 2006)

Contamination study and health risk assessment at a vacated site in Ashfield intended for a child-care centre, including determination of levels of organic, inorganic and heavy metal contaminants.

Sediment sampling and co-ordination of analysis of samples, including determination of levels of organic, organo-chlorine and heavy metal contaminants (in association with Pollution Research Pty Ltd).

Proposed marina development at Exile Bay in Sydney Harbour, 1995 and 1997.

Dredging of Long Bay, Middle Harbour 1996.

Sediment survey, Berry's Bay, Sydney Harbour 1997 and 1999.

## **CTI Consultants Pty Ltd**

### **Head Office (Sydney)**

#### **Directors:**

Fred Salome (0418 276 819)

[fred@cticonsultants.com.au](mailto:fred@cticonsultants.com.au)

Carol Bodle (0418 207 106)

[carol@cticonsultants.com.au](mailto:carol@cticonsultants.com.au)

### **Melbourne Office:**

**Manager:** Don Bartlett

Mobile: 0413 126 753

[don.bartlett@cticonsultants.com.au](mailto:don.bartlett@cticonsultants.com.au)

### **SE Aust Regional Office:**

**Manager:** Bill McEwan

Ph/Fax: (03) 5482 2686

Mobile: 0419 337 406

[bill@cticonsultants.com.au](mailto:bill@cticonsultants.com.au)

### **Newcastle Office:**

Todd Fotheringham

Mobile: 0407 299 557

[todd@cticonsultants.com.au](mailto:todd@cticonsultants.com.au)

[www.cticonsultants.com.au](http://www.cticonsultants.com.au)

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**PUBLICATIONS:**

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**Tank Linings** Protective Coatings For Corrosion Control, University of NSW School of Applied Sciences, 24/08/85

**Protection of Concrete Floors** (Bayliss, Dr. S. & Salome, F.) Heavy Duty Coatings For Steel, UNSW School of Applied Sciences, 04/09/87

**Liquid Applied Ultra High Build Coating For In-Situ Pipeline Refurbishment** Australasian Corrosion Association 1988 Conference.

**Coatings for Corrosion Control and Fire Protection**, Building Sealants And Coatings Seminar, Melbourne Seminar Services, October 1988.

**Water Borne Epoxy Coatings** (Salome, F & Jewson, G) Australasian Corrosion Association Conference Corrosion 28, Perth, Nov. 1988.

**Ultra-High Build Elastomeric Urethane Membrane Coating**, Corrosion Control Via Heavy Duty Coatings, UNSW School of Applied Sciences, 28/09/89

**Protective Coatings and Anti-Fouling for Small Craft** Control Of Corrosion In Small Craft, ACA Tasmanian Branch, 10/10/89

**Liquid-Applied Waterproof Membrane For Concrete** Coatings Toward 2000 And Beyond, ACA Victorian Branch, 22/11/89

**Investigation and Refurbishment of Re-Bar Corrosion in Concrete** Status Of Heavy Duty Coatings, UNSW School of Applied Sciences, 27/09/90

**Protective Coatings for Concrete:** Concrete Repair Seminar And Exhibition, Building Research Centre, UNSW. 18/04/91 & 05/09/91.

**Solventless Industrial Coatings** Heavy Duty Coatings For Corrosion Control, UNSW School of Applied Sciences, 03/10/91

**Silane Impregnation for Protection of Concrete** Australasian Corrosion Association Conference Corrosion 32, Hobart, November 1992.

**Evaluation of a Spot Test for Detection of Lead** Surface Coatings Australia, **30**, No. 9, p16-17, September 1993.

**An Evaluation of Water Repellents for Concrete** Presented at AustRoads 1994 Bridges Conference, Melbourne Feb. 16-18, 1994.

**Environmental and Occupational Health and Safety Aspects of Lead Paint Removal** Presented at Corrosion Prevention Centre of Australia Seminar, Coatings Towards 2000 and Beyond, Melbourne, March 16, 1994.

**Practical Considerations in the Removal of Lead Based Paint** (Chadwick, P. J. & Salome, F) Australasian Corrosion Association Conference Corrosion & Prevention 94, Adelaide, Nov. 1994.

**Managing Lead Paint Removal** Industrial Coatings and Corrosion Prevention, UNSW School of Materials Science and Engineering, 28/11/95.

**Australian Standards For Lead Paint Management** Presented at Corrosion Prevention Centre of Australia Seminar, Coatings Towards 2000 and Beyond, Melbourne, April 18, 1996.

**Lead Paint Management**, B. Gulson and F. Salome; 1996 Training manual for lead paint management course at Macquarie University Centre for Open Education.

**Field Evaluation of the Mitigating Effect of Silane Treatment on AAR in Concrete Railway Sleepers** 10<sup>th</sup> International Conference on Alkali-Aggregate Reaction in Concrete, Melbourne, August 21, 1996.

**Occupational Exposures and Hazardous Wastes from Abrasive Blast Cleaning**, Howard Morris and Fred Salome; 13<sup>th</sup> International Corrosion Conference Towards Corrosion Prevention, Melbourne, November 1996.

**Occupational Exposures Associated with Abrasive Blast Cleaning**, BCCA National Conference, Brisbane, August 18 1997.

**Coatings for Concrete - An Overview**, Presented at Corrosion Prevention Centre of Australia Seminar, Coatings for Concrete, Melbourne, August 21, 1997.

**Recent Australian Experience in Lead Paint Management**, Heavy Duty Coatings for Corrosion Protection, UNSW School of Materials Science and Engineering, October 1997.

**Coatings for Concrete**, Workshop Seminar, Australasian Corrosion Association Conference Corrosion & Prevention 97, Brisbane, Nov. 1997.

**Specifications for Concrete Impregnation** Howard Morris and Fred Salome; Presented at AustRoads 1997 Bridges Conference, Sydney, December 3-5, 1997.

**Occupational Exposure to Heavy Metals from Bridge Maintenance Painting** Howard Morris and Fred Salome; Presented at AustRoads 1997 Bridges Conference, Sydney, Dec, 3-5, 1997.

**Synthetic Flooring Systems for Hotel Bars, Kitchens and Back-of-House**, The Hotel Engineer, Winter 98.

**Coatings for Concrete**, BCCA National Conference, Albury, August 24 1998.

**Corrosion Potentials and Chloride Profiles for Reinforced Concrete Structures**, Australasian Corrosion Association Conference Corrosion & Prevention 98, Hobart, November 1998.

**Recent Case Histories of Lead Paint Removal in Australia**, BCCA National Conference, Barossa Valley, September 9, 1999.

**Corrosion Rates of Concrete and Steel in Sewers**, Salome, F. & Horlyck, L.; Australasian Corrosion Association, Corrosion & Prevention 99, Sydney, November 1999.

**Queens Wharf Tower Refurbishment**, Salome, F. & Aguiar, O.; Australasian Corrosion Association, Corrosion & Prevention 99, Sydney, Nov 1999.

**Protective Coatings for the Marine Environment**, Maritime Structures Conference, Sydney, 2000.

**Paint-Related OH&S Risk Assessments**, Presented at ACA NSW/SCAA Joint Technical Meeting, September 2002

**Climatic Conditions for Successful Application Of Zinc Rich Coatings**, Australasian Corrosion Association, Corrosion & Prevention 02, Adelaide, November 2002.

**OH&S in the Protective Coatings Industry**, Presented at Australasian Corrosion Association Seminar "New Standards for Protective Coatings", Melbourne, February 2003

**Application and Inspection of Coatings for Concrete**, Presented at Australasian Corrosion Association Seminar "New Standards for Protective Coatings", Melbourne, February 2003

**Repainting Sydney's Olympic Statues**, NSW ACA Technical Seminar, May 2004, and SCA National Conference, Perth September 2004.

**Refurbishment of Paringa Road Bridge**, Australasian Corrosion Association, Corrosion & Prevention 08, Wellington NZ, November 2008.

**Assessing the Risk of Zinc Chromate in Paint**, Australasian Corrosion Association, Corrosion & Prevention 08, Wellington NZ, November 2008.

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## INDUSTRY INVOLVEMENT:

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- President, Australasian Corrosion Association (2007)
- Secretary of ACA NSW Branch, 1997-2001. President ACA NSW Branch (2001-2004)
- Chairman of ACA Protective Coatings Technical Group, 1998/99. Secretary of ACA Protective Coatings Technical Group, 1996 and 1997.
- Director of Blast Cleaning and Coatings Association Australia Limited (as ACA representative); 2000-2005
- Member of NSW BCCA Committee, 1997/98 and 2001. Chairman of NSW BCCA Education Sub-committee, 1998.
- Member, Standards Australia Committee CH-003, *Paints and related materials*
- Member, Standards Australia Committee MT-014, *Corrosion of Metals*
- Member, Standards Australia sub-committee CH/3/10, *Site testing of protective coatings* (2003-onwards).
- Standards Australia sub-committee CH/3/11, *Lead paint management* - Member since 1996, Chairman 2005 onward
- Standards Australia sub-committee CH/3/5, *Site testing of Protective Coatings* - Chairman 2008 onward
- Member, Standards Australia sub-committee MT/14/2, *Corrosion Protection of Steelwork* (2003-onwards).
- Member, Standards Australia sub-committee CH/9/5, *Surface Preparation* (2003-onwards).
- Member of Surface Coatings Association of Australia.
- Member of NACE International.
- Member of US Society for Protective Coatings (SSPC).
- Member of International Concrete Repair Institute (ICRI).
- Coating Inspection Instructor, NACE and ACA Approved