

# DON BARTLETT

FRMIT (CHEM.ENG.), ARMIT (APPL.CHEM.) ARACI, MIE (AUST), CPENG.

## CURRICULUM VITAE

CTI CONSULTANTS PTY LTD

ABN 56 003 824 815

JANUARY 2004

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### PROFILE:

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Don Bartlett is Victorian Manager, where he consults to a wide range of private and public sector clients. His expertise centres on the appraisal, selection, testing, QA and failure investigation of a diverse range of building materials and products. Don is an expert in the fields of paint technology, anti-corrosive coatings, corrosion mitigation and materials of construction generally.

Don's career has covered testing, research and consulting activities for over 10 years in the power industry, 5 years in water supply and sewage disposal and over 25 years in the building and construction industry. He was until recently, Principal Materials Scientist at the Commonwealth Government's Scientific Services Laboratory and Executive Officer of the Australian Paint Approval Scheme (APAS).

During his 25 years in the construction industry he headed a team which provided a scientific resource to both public and private sectors in the physical, chemical and environmental appraisal of materials and coatings essentially for the building and construction industry.

Don has an international reputation in the development of Australian Standards and in the area of quality assurance. Notably he has chaired a range of Standards Australia Paint Committee (CH/3 Paints, CH/3/3 Testing of Paints and CH/3/8 Painting of Buildings and has notably served on Committee MT/14/2 Corrosion Protection of Steel, MT/9/6 Precoated Metal Cladding.

Don is a Certified Corrosion Technologist, a member of the Institute of Engineers and member of NATA's Surface Coatings Technical Group and also served on many other peer group committees and working groups.

He is a Laboratory Assessor for NATA and Telarc, NZ, having carried out over 50 QA assessments for these organisations. He is also a Past Chairman of the APAS Technical Committee and the Painting Contractors Certification Program Management Committee. He has lectured and published widely both in Australia and overseas and is Australasia's contributing editor of the SSPC Journal of Protective and Marine Coatings.

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### PERSONAL INFORMATION:

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**Born:** 11 August 1942  
**Nationality:** Australian  
**Family Details:** Married, 3 children

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### QUALIFICATIONS:

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Fellowship in Chemical Engineering (1969)  
Associate Diploma in Chemical Engineering (1967)  
Associate Diploma in Applied Chemistry (1961)

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### FIELDS OF SPECIAL COMPETENCE:

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Broad experience in the appraisal, investigations, selection, testing and specification of painting, paints, anti-corrosive coatings and building materials in general. Chemical engineering and environmental science experience.

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### SPECIALISED SUPPORT SERVICES:

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Through CTI's wider resources his consultancy has direct and immediate access to a wide range of diverse supporting facilities, including the specialised expertise of CTI's other consultants, notably in the areas of occupational health and safety, environmental science and concrete technology.

Where other expertise and services are required he is able to draw on his wide network gained through over 40 years in the field.

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### INTERESTS & OTHER QUALIFICATIONS:

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Past President, Secretary, Templestowe Jaycees  
Past President, Treasurer, Secretary, Doncaster Rostrum  
Past Secretary, Templestowe Uniting Church  
Part completion, Dip. in Metallurgy, RMIT 1970/71  
Conference Leading, Supervision & Public Speaking  
Courses M.M.B.W. 1974/78  
P.I.A. Plastics Course 1977  
Management Development Seminar, Australian National University 1984  
Contract Dispute Settlement 1989

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Lower Templestowe Vic 3107  
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#### Regional SE Australia

16 Orkney Court,  
Moama NSW 2731  
Ph/Fax: (03) 5482 2686

Assessment of QA Systems NATA 1989  
ACS Business Leadership Program  
Jogging, golf, tennis, sailing

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## EMPLOYMENT HISTORY:

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### **CTI Consultants Pty Ltd - Since September 1998**

Recently joined CTI as Victorian Manager where he continues to specialise in the specification and selection of materials, most notably surface coatings and the investigation of field failures. He is an experienced expert witness.

Role includes the provision of consultancy services in coatings, corrosion protection and materials science generally, including product and systems evaluation and investigations over a wide range of environmental and materials science issues. This includes metallurgy, building materials technology, environmental, organic and inorganic chemistry.

Broad experience in providing advice on a wide range of building materials including the physical, mechanical, thermal and durability properties of plastics, elastomers, paints, metals, glass, textiles, and of products including sheet claddings, membranes, fasteners, flooring materials, sealants, gaskets, pipes, reinforcement and structural members. Frequently lectures on corrosion and painting in China.

### **Scientific Services Laboratory, Australian Government Analytical Laboratories 1993 to 1998:**

Secretary and Executive Officer, Australian Paint Approval Scheme (APAS) and Principal Materials Scientist (Coatings). Responsible for:

- administrative and technical control of the APAS as directed by the APAS Management Committee.
- technical direction, consulting and oversighting of the Scientific Services Laboratory's commercial activities related to paints and related surface coatings and to corrosion mitigation, plastics and rubber.

Broad experience in testing, investigation and consultancy on paints and related surface coatings, plastics, rubber, glass, sealants and other building products including their chemical, physical and durability performance.

### **1978 to 1993:**

Principal Materials Scientist, (from 1985) Building Section, SSL.

Responsible for technical direction and oversighting of laboratory activities in respect of the evaluations and investigations over a wide range of environmental and materials science issues. This includes metallurgy, building materials and technology, geotechnical, environmental, organic and inorganic chemistry.

Broad experience in environmental monitoring and appraisal and evaluation, investigation and applied research of a wide range of building materials including the hazard and safety aspects and physical, mechanical, thermal and durability properties of plastics, elastomers, paints, metals, glass, textiles, and of products including sheet claddings, membranes, fasteners, flooring materials, sealants, gaskets, pipes, reinforcement and structural members.

Specialised expertise in the evaluation, testing and investigation of paints and related surface coatings and the problem of corrosion and corrosion mitigation.

Standards Association - Chairperson CH/3/3 Paints - Methods of Test, Member Committee MT/9/6 Coated Metal Products, Member Committee MT/14/2 Corrosion Protection of Steel

### **Melbourne and Metropolitan Board of Works 1974 to 1978:**

Investigations Chemist in the Coatings and Metallurgical Section.

Responsible for Group providing direction and carrying out applied research and investigation of the Board's corrosion mitigation procedures and a broad range of environmental and materials issues relevant to the Board's water supply systems and sewerage installations.

Monitoring of Board emissions to air to meet EPA requirements including the sampling and quantification of emission concentrations, and heat and mass balances.

Development, monitoring and installation of cathodic protection systems.

Quality control and formulation development for the Board's coal tar enamel manufacturing facility and related bituminous and coal tar materials including safety and environmental issues.

Investigation and appraisal of coatings and other corrosion mitigation procedures.

Various responsible for administration and supervision of painting contract supervision through inspection team.

Represented Board on SAA committee PL/44 Reinforced Plastics Process Equipment Group and GPC State Paint Group as required.

Laboratory's health and safety representative.

#### **1969 to 1974:**

Materials Scientist, Group Leader Coatings and Physical Investigations.

Responsible for the investigation, testing and evaluation of paints and related surface coatings, corrosion and metallurgical problems and the physical examination of a wide range of building materials / products and processes such as plastics, rubbers, membranes and sheet materials, fasteners and engine air cleaners.

In situ and laboratory monitoring of stress / strain characteristics of structures.

Short period of field quality control testing of concrete.

Department representative SAA committee WS/9/1 and MT 10/2 and NATA signatory.

#### **State Electricity Commission of Victoria 1959 to 1969:**

Analyst and subsequently Industrial Chemist.

Power Station chemistry, metallurgical services, corrosion mitigation.

Analysis, evaluation and investigation of furnace, diesel and lubricating oils and fossil fuels variously for calorific value, rheological properties, combustion characteristics, slagging properties and composition.

Quantitative analysis of flue gases, metals, corrosion products.

Monitoring, method development, testing and treatment related to boiler and cooling waters, condensate in power generating plant.

Corrosion, boiler descaling and furnace fouling investigations.

Metallography and physical metallurgy including crack and defect detection, hardness and mechanical testing.

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### **PRINCIPAL AREAS OF SPECIALISATION:**

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Typical consultancies are detailed below. They can be summarised as follows.

#### **Failure Investigation of Anti-Corrosive Coatings**

- Investigations in all States of Australia involving deficiencies in design, specification, products, application and quality assurance.

#### **Selection and Specification of Anti-Corrosive Coatings**

- Consults on large range of private/public sector projects, including bridges, buried pipes, wharf, telecommunication facilities, fuel and water tanks.

#### **Corrosion Investigation**

- Investigation of the cause and remediation of corrosion and other deterioration of roofing and metal cladding, cooling water systems, structures and equipment.

#### **Lead Paint Management**

- Extensive involvement in lead paint management in commercial, residential and industrial projects and notably has provided on-going consultancy support for major government housing organisation as well as individual projects. A member of Standards Australia Committee CH/3/11 Lead Paint Management since its inception.

#### **Conventional Decorative Paints**

- Involved in new and historic restoration painting projects and painting disputes. Author of book on Decorative Paints.

#### **Specialised Finishes**

- Involved in selection of many specialised finishes including for health, sporting and factory applications.

#### **Facades Painting**

- Considerable involvement in failure analysis and development of specifications for high build decorative finishes, silane/siloxane treatments and other specialty facades finishes.

#### **Miscellaneous**

- Specialised knowledge and consultancies on ceramic tiles, waterproofing membranes, plastics and elastomers.

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### **EXAMPLE CONSULTANCIES - ANTI-CORROSIVE COATINGS**

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**Christmas Island, Flying Fish Cove Jetty** - Appraisal of condition and cause of deterioration, and optimum method for reinstatement.

**Hydropower Scheme, Western Samoa** - Investigation of nature, cause and extent of corrosion of penstock and cost effective options for

reinstatement. Subsequent project management of repairs.

**Australian War Graves, Rookwood Cemetery NSW** - Investigation into cause of corrosion of structural steel and advice on reinstatement.

**Structural Steel RAAF Base, Curtin, WA, Aviation Fuel Tank Lining Deficiencies** - Establishment of cause of blistering of fuel tank lining.

**Submarine Escape Facility, HMAS Stirling, WA., Investigation of Epoxy Tank Lining Failure and Corrosion** - Several reports dealing with the cause and remediation of premature chalking of the epoxy lining and related issues

**Premature Corrosion of Steelwork Factory Complex, Strathmerton Vic.** - Determination of causes arising from contractual dispute.

**Liquid Natural Gas Storage Tank Coating Failure, Dandenong, Vic.** - Investigation of the extent, nature and probable cause of blistering failure in maintenance protective coating. Subsequent appraisal of service life of coating and recommendations for reinstatement of protection of tank and peripherals.

**Army Parachute Towers Coating System, Nowra, NSW** - Investigation of extent, nature and cause of coating failure.

**Tumut No. 1 Power Station, Cabramurra, NSW** - Investigation of coating defects in spiral casing and draft tube and recommendations for repair.

**Navy Fuel Pipelines, Darwin, NT, Protective Coatings** - Investigation of the nature and extent of coating and pipe deterioration and advice on optimum reinstatement.

**Maintenance Painting Omega Tower, Woodside, Vic** - Inspection of 440 metre communications tower to advise on current condition of steelwork and advise on optimum maintenance strategy.

**Communications Mast Coating, City High Rise Buildings, Melbourne, Vic.** - Establishment of significance of coating defects.

**Paint Restoration, Tharwa Bridge, ACT** - Inspection and determination of cause of deterioration and establishment of remedial strategies. Preparation of specification for reinstatement.

**Swan Island Bridge Repainting, Queenscliff Vic.** - Development of specification for maintenance painting and technical control of quality assurance.

**Quality Assurance of Powder Coatings for Electrical Switchboards, Keilor, Vic.** - Inspection of factory facilities and establishment of a program for specification and quality assurance product.

**Moondarra Reservoir Outlet Works, Moe, Vic.** - Advice on reinstatement of corrosion protection and preparation and project management of works.

**Scrivener Dam, ACT** - Advice and specification of reinstatement of protective coating of dam gates, notably in the determination of options to minimise risk in removal of lead based paint.

**Mt Barker Communication Tower, WA** - Appraisal of likely long term serviceability of present protective coatings and consideration of options for reinstatement.

**Mt Burr Communications Mast, SA** - Advice on contractors options for reinstatement and assessment of dry ice technique of abrasive blasting.

**Aviation Fuel Tank Coatings** - Selection and specification of linings for fuel tanks and investigation of coating failures

**QANTAS Hanger, Sydney Airport, NSW** - Advice on coating reinstatement on structural steelwork.

**War Graves, Department of Veterans Affairs,** - Development of specification to upgrade service life of bronze plaques, and subsequent development of quality assurance plan and monitoring of manufacturer quality control of Australia Remembers Freedom Wall.

**War Graves, Department of Veterans Affairs,** - Development of technical specification for war grave plaques on long term contract and technical support of quality assurance program.

**Corrosion of Elevated Galvanised Walkways, Kakadu, NT** - Investigation of two separate problems of corrosion in soft waters and means of reinstatement.

**Highway Overpass Coating Failure. Canberra, ACT** - Determination of cause and nature of coating failure and advice on options for repair.

**McCrae Lighthouse, Vic** - Consultancy advice on reinstatement of protective coating, including management of lead paint removal. Subsequent preparation of specification and technical oversight of works.

**Degreasing Plant, Vehicle Assembly Plant, Vic.** - Investigation into causes of corrosion and recommendations on cost effective options for dealing with problem.

**Wind Towers, Portland and Toora** – Quality Assurance of protective coating for towers and related infra-structure.

**Wind Farm, Corrosion Protection** Consultancy advice and quality assurance of corrosion protection on wind farms in eastern and western Victoria

**Vehicle Paint Finish.** Many appraisals of durability of finish and corrosion of substrate.

**Antifouling Paint Finishes.** Member of consultative team to review options for quality assurance of antifouling standards for vessels entering Australian waters.

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## EXAMPLE CONSULTANCIES – CORROSION

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**Metal Gas Pipe Reticulation System, Review of Service Life** - Appraisal of serviceability of major city system based on historical and anecdotal data, literature review and field inspections.

**Defence Facility, Canberra, ACT, Corrosion of Vent Assemblies** - Identification of cause of deterioration and investigations of alternatives for correcting problem.

**Investigation of DICL Water Mains Corrosion, Brisbane Airport Qld.** - Review of cause of failure of main, likely future performance and options for replacement.

**Buried Steel Pipe - Adelaide Entertainment Centre, SA.** - Determination of cause of premature corrosion and advice on remediation.

**Corrosion of Aluminium Boats, Cocos Island** - Investigation into pitting corrosion of hulls.

**Corrosion of Powder Coated Aluminium Castings, Vic.** - Appraisal of corrosion and protective treatment.

**Corrosion of Cooling Towers, Causes and Mitigation, Vic** - Investigation of corrosion in air conditioning systems including those of four major high rise city buildings, Melbourne.

**Hail Damage to Metal Roof Cladding, Ballarat, Vic.** - Examination of extent and significance of hailstorm on major private school roofing.

**Corrosion of Gas Heaters - Holeproof, Vic.** - Establishment of nature and cause of corrosion and means of eliminating problems.

**Corrosion of Chiller Line - Television Station, Melbourne, Vic.** - Establishment of nature, extent and cause of corrosion and strategy for control.

**Investigation of Corrosion of Large Diameter Water Tank Floor, Vic.** - Major investigation into the extent and cause of perforation of two major Melbourne Water steel water tanks.

**New Townsville Hospital** – Appraisal of suitability of anodised aluminium for interior fittings.

**Corrosivity of Steel in Victoria** – Provision of guidelines for corrosion protection of steel bridges in Victoria on the basis of available data on corrosivity of the atmosphere.

**National Animal Health Laboratory, Geelong.** Condition appraisal of materials of construction and coatings after 20-year service and report on directions for future maintenance.

**Galvanized Culverts, Hume Hwy. Vic.** Corrosivity Assessment, Condition Survey and Life Projection.

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## EXAMPLE CONSULTANCIES - CONVENTIONAL DECORATIVE PAINTS

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**Dept. of Lands and Housing NT., Establish Strategies for Cost Effective Maintenance Painting and Painting Brochure** - A comprehensive examination of Public housing in Darwin and Alice Springs, recommendations on optimum painting practices and preparation of public painting brochure.

**Townsville, Newcastle and Mackay Customs Houses, Qld., Investigation of Deterioration of Interior Paint Finishes** - Separate reports establishing the cause of deterioration of paintwork on these historic buildings, and the necessary steps for reinstatement.

**Tuggeranong Office Park, ACT Examination of Paint Finishes** - Established the acceptability of paint finishes on the \$120M office complex, and the need for further quality assurance.

**Appraisal of Paint Finishes, 5 Star Hotels, Canberra and Melbourne** - An appraisal of the standard of interior and exterior paintwork on two hotels in resolution of contractual disputes.

**Painting of Australian Embassy, Riyadh, Saudi Arabia** - Advice on use and painting of timber.

**Wilsmere Redevelopment, Kew. Vic. Appraisal of Exterior Paint Finish Options** - Examination of building for optimum restoration of exterior paint work.

**St Kilda Town Hall, Vic. Colour Variations on Interior Walls** - Contractual dispute.

**Appraisal of Exterior & Interior Paint Finishes of Houses & Flats** - Range of investigations into the cause of deterioration and means of rectification.

**Southern Women Refugee Centre, NSW. Coating Failures** - Investigation of range of paint defects.

**Footscray Town Hall, Investigation of Deterioration of Interior Paint Work** - Establishment of cause and mode of reinstatement.

**Swimming Pool Failure Investigations and Specification of Reinstatement** - Variety of problems notably of municipal pools at Ashburton, Vic. and Woomera, SA.

**Quality Assurance of Painting** – Development of specifications and inspection of painting works on a wide range of commercial buildings.

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## EXAMPLE CONSULTANCIES - FACADES RESTORATION

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**Provisional Parliament House, Canberra, Act, Restoration of Exterior Paintwork** - Details the condition, cause of deterioration and means of reinstatement of the finish, including coats of arms.

**Cairns International Airport, Qld, Investigation of External Paintwork** - Ascertain the probable cause of chalking of high build acrylic latex coatings on the building facade.

**Defective Paintwork Apartment Buildings, Cairns, Qld** - Investigation of cause and rectifications of high build exterior coating.

**Humpty DOO, NT** - Investigation of delamination of acrylic membrane coatings.

**Coating Cracking Defects in Precoated Metal Cladding, Darwin, NT and Adelaide Airports, SA** - Separate investigations of problems, including quality assurance investigations of manufacturing procedures and procedures for eliminating factory problems and site rectification.

**Sydney Airport Centre, NSW, Deficiencies in Painted Facade** - Investigation into the cause of paint blistering on GRC facade panels.

**June Correctional Centre, NSW, Exterior Paintwork Deficiencies** - An appraisal of the condition of the paintwork and investigations to establish the cause of early paint failures.

**Sunshine Commonwealth Offices, Vic. Facade Reinstatement** - Determination of cause of deterioration and procedure for rectification.

**Painting Metal Roofs, Pakenham Shire, Vic** - Appraisal of the acceptability of painted surfaces for collecting potable water. Investigation of Defects in Wall and Roof Cladding RAAF Base Tindal, NT - Investigation to establish nature, extent and long term ramifications of defects.

**Tokyo Embassy Complex, Japan - Stainless Steel Facade** - Investigation of extent and cause of deterioration and options for maintenance.

**Specifications for Painting Facades** - A wide range of specifications for painting commercial and domestic premises, including high rise.

**David Jones, Bourke St. Melb.** Inspection & specification for refurbishing embellishments and paintwork.

**National Bank Head Office, BourkeSt. Melb.** Preparation of technical specification for repainting exterior.

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## EXAMPLE CONSULTANCIES - MISCELLANEOUS

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**Investigation of the Failure of Glass Windows, high rise building, Adelaide, SA** - Field and laboratory examination to establish the cause and remedial action following failure of glass windows.

**Citcom Two Development, Adelaide, SA - Failures of Exterior Tiling** - Establishment of extent, cause and means of rectification.

**RAAF Base Tindal NT., Failure of Ceramic Floor Tiling** - Investigation of the cause of bond failures, both at the Tindal Base and in Katherine.

**Evaluation of Ceramic Floor Tile Adhesives** - Laboratory trials and specification which established systems to avoid failures as evidenced at Tindal RAAF Base, NT.

**Quarantine Inspection Services, Import Export Centre, Brisbane Airport, Qld., Investigation of Sealant Failures** - Details the nature, extent, causes and preferred method of repair of elastomeric sealants in expansion joints in compressed fibrous cement and GRC facade.

**Investigation of Defects in Floor Coating Systems** - various investigations centring on contractual dispute requiring investigation of causes of defects and in some instances advice on rectification.

**Loy Yang Power Station - Vic. Staining investigations, several reports** - Investigations to establish the cause of staining in the vicinity of the power station, and development of an on-going plan to monitor the problem and establish a means of overcoming the problem.

**Australian Embassy Tokyo, Japan - Cleaning Regime** - Establishment of optimum cleaning regime for stainless steel facade having regard to durability and aesthetics.

**Reinstatement of Monolithic Polyester Floor Coating - Singleton, NSW** - Advice on the likely cause of failures in kitchen areas and recommendations for reinstatement.

**Gypsum Plaster Products, Christmas Island** - Appraisal of hard wall plaster in lieu of cement product.

**Australian Animal Health Laboratories** - Review of performance of Organic Building Materials and metals throughout complex after 20 year service.

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#### PROFESSIONAL AFFILIATIONS:

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- Chairperson, NATA Coatings Technical Advisory Group
- Chairperson, Standards Australia, Painting of Buildings Committee CH/3/8
- Associate of Royal Australian Chemical Institute
- Member of Institute of Engineers, Australia
- Member of Australasian Corrosion Association (Corrosion Technologist)
- Associate Member Surface Coating Association, Australia
- Member of Institute of Metals and Materials, Australasia Ltd
- Member, NATA Chemical Testing Accreditation Advisory Committee
- Member, Standards Australia Committee, MT/14/2 Corrosion Protection of Steel

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#### FORMER ROLES & AFFILIATIONS:

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- Past Secretary & Executive Officer, Australian Paint Approval Scheme
- Foundation Chairperson, Australasian Corrosion Association, Protective Coatings Technical Group
- Former Principal Materials Scientist, Scientific Services Laboratory, Aust. Govt. Analytical Laboratory
- Past Member of Australian Paint Approval Scheme Technical Committee
- Past Member of Painting Contractors Certification Program Management Board
- Past Chairperson, Standards Australia, Paint Committee CH/3
- Past Member, Standards Australia Committee WS/9/1 Protective Coatings for Buried Pipes
- Past Member, Standards Australia Committee CH/3/11 Lead Paint Management
- Past Chairman, Standards Australia Committee CH/3/3 Paints - Methods of Test,
- Past Member, Standards Australia Committee PL/44 Reinforced Plastics Process Equipment
- Past Member, Standards Australia Committee, MT/9/6 Coated Metal Products
- Past Member of NATA's Chemical Accreditation Advisory Committee
- Past Chairperson of NATA's Surface Coatings Technical Group

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#### NOTABLE PUBLICATIONS:

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**Factors in Coating Selection** Institute of Engineers, Australia, Building Products Seminar, June 1979.

**Preparation of Enforceable Coating Specifications** Australasian Corrosion Association NSW Surface Preparation for Protective Coatings Seminar, May 1981.

**AS 2312 and Preparation of Coating Specifications** Seminars for Standards Australia promoting AS 2312 in Brisbane, Sydney, Melbourne, Adelaide & Perth April/May 1981.

**Selection and Specification of Anti Corrosive Coatings**, Institute of Metal Finishing, August 1981.

**Surface Coatings in Historic Restorations** CSIRO Division of Building Research Historic Buildings Seminar, Nov 1982.

**Cost Effective Inspection**, Australasian Corrosion Association, November 1982 (ACA Best Review Paper 1982/83).

**Inhibition of Deposit Formation and Corrosion in Water Systems**, International Solar Energy Society, May 1982.

**Decorative Painting of Buildings** book issued under DHC Building Information Series (1984) ISBN 0644026596.

**Selection of Coatings for Steel Protection** Galvanisers Association, Sydney, October 1985.

**The Role of Applied Coatings in Inhibiting Corrosion in Reinforced Concrete Structures** 2nd Aust/Japan Workshop Durability of Reo Concrete Structures, Melb. November 1988 CSIRO.

**Ground Contamination - a Commonwealth Laboratory's Perspective**, Risk Engineering Sem. IE Aust., Melbourne. August 1991.

**Water Vapour and Water Soluble Salts - the Scourge of Anti Corrosive Coatings**, Australasian Corrosion Assoc. Annual Conference Nov 1992.

**Predicting the Durability of Building Materials**, Australian Corrosion Association Annual Conference. Adelaide, November. 1994.

**Painting Contractors Certification Program - Operation and Benefits**, Protective Coatings Seminar, University of NSW, Sept. 1994.

**Painting Contractor Certification Program**, Blast Cleaning and Coating Association of Australia, Launch of Painting Contractors Certification Program in Queensland, Brisbane, July 1995.

**Corrosion in Water Circulation Systems**, Australasian Corrosion Association, Victorian Branch, September 1995.

**Design for Corrosion Protection**, Standards Australia, Australia wide seminars on AS2312 and the Protection of Steel Structures April - May 1995.

**Corrosion Mitigation in Water and Fuel Tanks - Evolution by Bitter Experience**, 4th Annual Bulk Liquid Storage Tanks Conference, Sydney NSW March 1996.

**Corrosion Protection of Structural Steelwork**, Australian Institute of Steel Construction, Victorian Branch, April 1996.

**Planning and Design for Corrosion Protection**, Surface Coatings Association of Australia, Victorian Branch, May 1996.

**Paint Standards and Certification in Australia - a Public Sector Viewpoint**, International Corrosion Conference, Melbourne. November 1996.

**Why Protective Coatings Sometimes Go Wrong**, International Corrosion Conference, Melbourne, November 1996.

**Paint Standards and Certification Downunder** JPCL, Jan 1997.

**Concrete - The Role of Water and Water Repellents**, Coatings for Concrete Seminar, Australasian Corrosion Association, Melbourne, August 1997.

**The Performance of Building Materials in Australia** Fed. of Soc. Coatings Technologists, 75th Conf., Atlanta, USA, Oct. 1997.

**Coated Metal Roofing and Wall Cladding, Pitfalls in Performance**, Aust. Corrosion Assoc. Annual Conference, Brisbane, November 1997.

**Lead Paint Management - Detection of Lead on Painted Buildings and in the Environment** Standards Australia Lead Paint Management Seminar, Sydney, June 1998.

**Paint Standards in the Australian Public Sector** APAS - Sydney Water Corp. Paints & Painting Seminar, Sydney, June 1998.

**Volatile Organic Compounds in Paint - a Public Sector Perspective** RACI Polymer Group, Monash University. June 1998.

**The Selection and Quality Assurance of Penetrating Silicon Based Water Repellents** 2nd Rilem International Conference on Rehabilitation of Structures, Melbourne, September 1998.

**The Deterioration of Building Facades & Minimising the Costs of Maintenance**, Australasian Corrosion Association Annual Conference, Hobart, December, 1998

**Quality Assurance and Standards for Exterior Wood Coatings**, (with BS Dawson, NZ Forest Research Inst. and G Hora, Graunhofer Inst. Germany), Surface Coatings Australia, Oct. 1998.

**Galvanic Corrosion** Journal of Protective Coatings and Linings Vol 16, No. 2, Feb 1999 (also published in Protective and Marine Coatings (Asia/Pacific) Vol 2(2) 1999, Impira Latina (South America) and Corrosion Management, July 1999).

**The Impact of the Australian Environment on Painted Steel and Other Building Materials**, Blast Cleaning and Coating Association Annual Conference, Barossa Valley, SA, Sept. 1999.

**High Build Coatings for Cementitious Surfaces**, Australasian Corrosion Association Annual Conference, Sydney, Nov. 1999. (Reprinted in JPCL Sept 2001 and SCAA Oct 2003)

**Practical Issues in Cost Effective Corrosion Protection**, IRR Conference *Cost Effective Methods of Corrosion Control*, Melb., June 2000.

**Cost Effective Maintenance of Building Exteriors, A Government Housing Department's Experience**, (with P Davis, Dept. of Human Services, Vic.) Surface Coatings Aust., July 2000.

**Standards Australia Seminars promoting AS/NZS 2311 Guidelines for Painting Buildings**, presented in Brisbane, Sydney, Melbourne and Perth, Dec 2000 and June 2001.

**Industrial Pollution and its Impact on Corrosion and Corrosion Mitigation Practices**, ACA Conference, Newcastle, Nov. 2001.

**Industrial Pollution and its impact on Corrosion and Corrosion Mitigation Practices** - presented to ACA Conference, Newcastle, Nov. 2001. (Reprinted in JPCL May 2003 and SCAA Sept 2002).

**Decorative Galvanized Steel - the Impact of Colour**, Galvanizers Association of Australia, Sept. 2003.

**Paint Finishes Over Galvanizing, Why Do They Fail?** presented to ACA Conf., Melb., Nov. 2003.

## CTI Consultants Pty Ltd

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