DAVID STITT

PH.D., B.SC.(HONS.)
CURRICULUM VITAE

CTI CONSULTANTS PTY LTD
ABN 56 003 824 815
OCTOBER 03

PROFILE:

Versatile & experienced materials technologist. Knowledgeable in building products & materials, surface coatings, composites, packaging materials, durability. From a manufacturing R&D base, has provided product, process & quality improvement, customer technical liaison. Has a wide expertise in industrial laboratory testing & analysis. A problem-solver.

AREAS OF TECHNICAL EXPERTISE:

Surface Coatings, Building Materials, Cements & Plaster, Ceramics, Glass, Composites, Fibreglass, Testing, Durability.

EDUCATION:

Doctor of Philosophy, University of NSW, Chemical Technology, 1971

B.Sc. (Hons.), University of NSW, Industrial Chemistry, 1967

EMPLOYMENT:

CTI Consultants Pty Ltd - 2000-Present
Senior Consultant

James Hardie International - 1998-2000
Systems Development Unit, Dev. Scientist

James Hardie Research - 1993-1998
Surface Coatings & Durability Dev. Scientist

ACI Glass Packaging - 1988-1993
Technologist, Melting Operations, Eng. Services

ACI Laboratory Services - 1982-1987
Leader, Physical Testing Section

ACI Technical Centre - 1971-1982
Mgr, New Products & Building Products Groups
Research scientist, Advanced Materials

BUSINESS EXPERIENCE:

James Hardie International 1998-2000
Development scientist, Systems Development

Responsible for jointing & coating systems in development projects; team member covering materials & corrosion issues and specifications in new construction systems; provider of testing & durability expertise

Achievements

- Introduced new colour coating & specification for building system export & overseas fibrecement board manufacture
- Approved lower cost, improved flush jointing compound for Asian export business
- Devised superior flush jointing systems for partition walling after fundamental investigation, using novel glassfibre tissue and woven tapes with polymer compound
- Introduced low cost clear acrylic sealer for sanded board production, replacing 'traditional' product, with significant cost savings
- Established requirements for anti-carbonation coatings (types & application levels) for compressed fibrecement sheet facades

James Hardie Research 1993-1998
Development Scientist, Surface Coatings & Durability

Responsible for new surface coating technology within James Hardie, and special durability and corrosion testing and relevant new product evaluation. In charge of quality system specifications for coatings. Trouble-shooting of materials problems beyond scope of company specialists, assisting sales engineers with customer problems.

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Moama NSW 2731
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Achievements

- Instituted low cost thermoplastic primer for new plank priming process (avoiding expensive thermoset coating & related curing operations unsuccessfully used by the company in past failures in introducing pre-painted products)
- Optimised board pigment colouring system and saw specifications put in place
- Established 10-rack natural weathering station for company & competitor product assessment
- Initiated replacement of surface-degrading chromium-based release and anti-efflorescence coating with surface-improving polymer emulsion (for US market)
- Delivered paper on basic technology for painting & coating fibre cement to SCAA conference (Darling Harbour, Sydney), published later in SCAA journal
- Involved with a widely lodged patent on use of metakaolin in fibre cement, and the launch of a wallboard (New Villaboard) incorporating this additive - although because of the cost of this imported (US) material, I promoted early reformulation to use a cheaper local alternative, now in place, with increased cost efficiencies
- Investigated inorganic silicate coating system for factory-application to cellulose fibre reinforced cement board

ACI Glass Packaging 1988-1993
Technologist, Melting Operations, Engineering Services

Responsible for surface coating developments in regards to glass container manufacture, and for basic physical testing & durability of glassware in manufacture, assist sales engineers with hands-on customer technical service, guide factories through new glass composition & colour production, training staff of overseas operations.

Achievements

- Led successful laboratory scale trials of International Partners in Glass Research development of super-lightweight glass bottle protected by clear acrylic coating applied & UV-cured as bottles left annealing lehr: participated in early factory trials in Brisbane which showed technical problems in making such lightweight bottles to required quality for profitable coating
- Provided instruction to overseas plant personnel in microscopic identification of glass contaminants and in essential glass quality procedures
- Introduced improved glass colour measurement methods during glass colour transitions

ACI Laboratory Services 1982-1987
Leader, Physical Testing Section

Responsible for regular and special physical laboratory testing service to multi-business organisation and as testing & problem-solving consultancy to outside companies
NATA signatory for mechanical testing of plastics & composites, assessor in several fields of registration
'Trouble-shooting' of unusual problems using broad materials knowledge and analytical skills
Durability testing of company products and storage methods, surface-related problems

Achievements

- Conducted extensive approvals testing of polyester resins and fibreglass reinforcements for Royal Australian Navy minehunter development
- Seconded to company's PGH Brick division, researched low fuel firing of extruded bricks, using natural or added coal (wastes) in extrusion mixes
- Enhanced lubricity testing of bottles and introduced new QC procedure for polyethylene emulsion lubricant application
- Integrated computer with spectrophotometer and developed software to greatly enhance laboratory glass colour measurement and analysis for factory products, competitor glasses, and of in-house research glasses

ACI Technical Centre 1971-1982
Manager, New Products & Building Products Groups
Research scientist, Advanced Materials

Responsible for research projects into new materials for potential company commercialisation and development & upgrading of company products

Achievements

- Produced an extensively lodged patent on an alkali-protective furane resin for coating normal 'E' glass fibre to enable its use as cement or concrete reinforcement
- Oversaw progressive upgrading of NZ-made pressed metal roofing product, introducing anti-corrosion acrylic primer on galvanised base in place of coil-coated epoxy.
- Researched bond between fibreglass and plaster, produced range of foamed plaster cores as in-fills for panels

CTI Consultants Pty Ltd

For more information, contact:

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