MARCUS DELL, M.A.Sc., P.Eng.

Senior Building Science Specialist

Staff Biography

Expertise & Role

Mr. Dell is recognized as a leader in the building science field in British Columbia. He combines his academic training with twenty years of work experience to offer all- round knowledge of the application of building science principles to real buildings.

He has consulted on a wide variety of project types including new construction, rehabilitation of existing structures and restoration of historic structures.

Marcus' experience and expertise has resulted in him being invited to speak on building envelope and restoration issues at industry seminars and conferences. Examples include presentations for the British Columbia Building Envelope Council (BCBEC), the Sealant and Waterproof Restoration Institute (SWRI), the Canadian Mortgage and Housing Corporation (CMHC), and the Masonry Contractors Association. Marcus has prepared several technical papers and publications:

- "Performance of Stucco-Clad Wood-Frame Exterior Walls in a Temperate Rain Forest", presented at ASTM Committee E-6 Meeting, March 1996.
- "Distress of Stucco Clad Buildings in the Vancouver Area", presented at the Seventh Conference on Building Science, Toronto, ON, March 1997.

Two years were spent at the University of Waterloo conducting an industry sponsored research program and assisting with instruction of the building science curriculum. This research information was used to meet the requirements for a Masters Degree in Civil Engineering with emphasis on Building Science.

In addition, Marcus assisted in the development of "The Best Practice Guide for Building Envelope Wood Frame Construction in the Coastal Climate of British Columbia" and assisted in a project to study the performance of building envelope assemblies and details in the high-rise building stock in the BC Lower Mainland. His expertise resulted in him being invited by the Washington State Senate to participate in a task force that resulted in substantive changes to the Condominium Act.

Marcus is a shareholder and Principal of RDH and as such participates in the overall direction and management of the firm.

Education

B.A.Sc., Civil Engineering, University of Waterloo

M.A.Sc., Civil Engineering, University of Waterloo

Management Skills in Advanced Technology, Simon Fraser University

Memberships & Awards

Association of Professional Engineers & Geoscientists of British Columbia

Technical review committee for Association of Professional Engineers and Geoscientists of British Columbia

Past Director, British Columbia Building Envelope Council

Typical Projects

Marcus has been involved in the design and field review for a wide variety of projects.

Wood Frame Rehabilitation

- 555 West 14th Avenue, Vancouver, BC
- Gilford Court, Vancouver, BC
- Shorewalk, Ladner, BC
- Willow Point Estates, Campbell River, BC

High-Rise Rehabilitation

- Carnarvon Towers, New Westminster, BC
- Solhiem Place, Vancouver, BC
- Shon Yee, Vancouver, BC
- Panorama Gardens, Vancouver, BC
- Bellevue Place, West Vancouver, BC

New Wood Frame Construction

- St. John Hemingway, Vancouver, BC
- The Hemingway, Vancouver, BC

New High-Rise Construction

- Bentley, Vancouver, BC
- Summerhill, North Vancouver, BC
- Lot 3J, Vancouver, BC
- Carey Theological Residence, UBC, Vancouver, BC

Other Interesting Projects

- 1188 Howe Street, Vancouver, BC, EIFS rehabilitation
- Scott Paper, New Westminster, BC, sloped metal roofing with asphalt peel and-stick membrane air barrier
- International Plaza, N. Vancouver, BC, two-ply SBS modified asphalt membrane
- Science World, Vancouver, BC, geodesic dome with stainless steel panels
- Marine Building, Vancouver, BC, restoration of historic brick and terra cotta
- Lampson Street School, Victoria, BC, restoration of historic brick & terra cotta