

# Richard B. Ogle

B.Sc., M.Sc., P.Eng.

## Experience

Richard Ogle has over forty years of experience in the field of building engineering. Richard's primary area of expertise is the building envelope: roofs, walls and windows. Richard's background also includes concrete restoration, building aerodynamics and the structural analysis and inspection of communication towers.

Richard started his career with the consulting firm of Morrison Hershfield Limited and worked as a project engineer on building engineering projects throughout Western Canada and Ontario for nearly a decade.

In 1990 Richard joined Alberta Infrastructure's Building Envelope Branch where he worked for six years and finished as Branch Director.

Richard rejoined Morrison Hershfield's Edmonton Office in 1995 as a Senior Specialist.

In 1997 Richard started the firm, Building Science Engineering Ltd. (BSE) which offers design, investigation, testing and inspection services primarily related to the building envelope.

Notable projects Richard has worked on include:

Alberta Legislature Building - Terra Cotta Dome and Sandstone Restoration.

Fort McMurray Hospital - Envelope Restoration.

Edmonton Terrace Building - Envelope Restoration.

Edmonton MacEwan University - Flat Roof and Barrel Vault Replacement

Winnipeg Square - Curtainwall Restoration.

Richard has appeared as an expert witness in Court of Queens Bench.

## Education

- B.Sc. Civil Engineering  
University of Alberta, 1978
- M.Sc. Civil (Structural) Engineering  
University of Alberta, 1981

## Memberships

- The Association of Professional Engineers, Geologists and Geophysicists of Alberta
- The Alberta Building Envelope Council (Past President)
- Chairman - Joint Standing Committee Task Group: Structural Requirements for Environmental Separators, National Building Code of Canada
- Member - Standing Committee on Environmental Separation, Part 5 of the National Building Code of Canada
- Certified Level I Building Thermographer

## Publications

- "Air Barrier Testing Using Smoke Flow Testing and Infrared Thermography in the Canadian Arctic". 32<sup>nd</sup> Annual Conference, Canadian Society for Civil Engineering, 2004.
- "Dynamic Buffer Zone – DBZ", 8<sup>th</sup> International Conference on the Durability of Building Materials & Components, 1999
- "Investigation and Repair of a Terra Cotta Dome in a Cold Climate", Thermal Performance of Exterior Envelopes VI, 1995
- "Failure of the Building Envelope: Two Case Studies", Thermal Performance of Exterior Envelopes VI, 1995
- "Fatigue Failure of Steel HSS Trusses", Structural Engineering Report No. 102, University of Alberta.

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