

almitra

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ROY McPHAIL, P.Eng.

SUMMARY OF EXPERIENCE

Mr. McPhail has 40 years experience in the consulting engineering and construction industry, including ten years as Chair of the Manitoba Mining Board. His areas of expertise are technical integration, alternative dispute resolution and mentorship and training.

Mr. McPhail's management experience includes direct responsibility for budget, schedule, and deliverables for as many as 50 personnel on large projects. He has also been involved in product development projects ranging from wall systems to nuclear reactor containment vessels.

EDUCATION

Alternative Dispute Resolution

Essentials of Loss Adjusting, 2014, Insurance Institute (exam on July 3, 2014)

The Expert Witness: Assisting the Trier of Fact, 2014, APEGM Professional Development Committee (Jamie Jurczak is a Partner with Taylor McCaffrey)

Contract Management - Risk Allocation by Design, 2014, ACEC MB (XL Insurance & Oldfield Kirby Esau Insurance Brokers)

Six Full Day Annual Conferences, 2006 – 2011, Manitoba Council of Administrative Tribunals

Five Training Sessions – Principles of Justice, 2007 – 2011, Supreme Court Justice Marshall Rothstein

Engineering and Developer's Representation

B.Sc., Engineering, 1977, University of Alberta (with distinction)

FE Exam (National Council of Examiners for Engineering and Surveying), 2002, (highest mark in the State of North Dakota)

Various Professional Development activities, ongoing, in excess of 200 hours per year as reported to APEGM

Mentorship and Training

Introduction to Adult Education, 2013, Red River College (Grade: A)

Certificate in Adult Learning Practices for Effective Workplace Training, 2013, Manitoba Construction Sector Council

CURRENT AFFILIATIONS

Association of Professional Engineers and Geoscientists of Manitoba, Member
Building Owners and Managers Association, Awards Judge
Safety Services Manitoba Board, Member
Board of Governors of St. Paul's College at the U of M, Chair of Building Committee
Board of St. Joseph's 100 bed personal care home, Chair of Planning Committee
Roman Catholic Archdiocese of Winnipeg Cemetery Board, Vice Chair

PAST AFFILIATIONS

Mining Board of Manitoba, Chair
Task Force on Engineering Reviews for APEGM Practise Standards Committee, Chair
Manitoba Building Envelope Council, Founding Chair of Mould Committee
Building Standards Board Subcommittee on Energy and Water Efficiency, Member
Building & Maintenance Committee of St. John Brebeuf Church and School, Chair

CAREER

1993 - Present	President, Almitra Consulting Inc., Winnipeg
1984 - 1992	Senior Engineer, Wardrop Engineering, Winnipeg
1978 - 1983	Engineer, Read Jones Christoffersen, Calgary
1977 - 1978	Junior Engineer, Associated Engineering, Edmonton
Prior to 1977	Materials Testing Technician, Surveyor, Carpenter's Apprentice, Concrete Worker, Industrial Engineering Clerk

PROFESSIONAL EXPERIENCE

Adjudication and alternative dispute resolution

- Ten years of rulings arising from enforcement of the Mines Act (see <http://www.manitoba.ca/iem/mrd/board/mboard.html>).
- A total of only four notifications to the insurer made over the 21 years of Almitra, with no liability found on any of the notifications filed.
- A total of only four litigations launched by Almitra for non-payment of fees over the 21 years of Almitra, with three settled in Almitra's favor prior to a ruling by a court of law (and one empty judgment in Almitra's favor).

Developer's representation

- Thirty years of acting as the developer's representative over a wide range of projects, mostly but not only for the not-for-profit sector as a volunteer.
- Advice to a not for profit board when their \$19M affordable housing project was stalled out during detailed design. Services included guiding the Architect and his sub-consultants to completion of the design, acting as applicant for the building permit (until the General Contractor was recruited), assisting with negotiation of financing, acting as the developer's representative throughout construction, and marketing of the units through groundbreaking and a ribbon cutting events and arranging for show suites.

Senior level consulting

- Prime Consultant for a feasibility study for a tantalum mine in Mozambique.
- Project Manager for the site design and construction supervision of a \$40M upgrade to a northern airport as part of the North American Air Defense Modernization project. The upgrade included paving of the runway, runway lighting, six new hangars, a command and control centre, a personnel accommodation building, a fire hall, and various ancillary buildings and systems.
- Project Manager for completing and commissioning the Thorlakson Building at the Health Sciences Centre in Winnipeg.
- Project Manager for many of the expansions of the surface facilities at the Tanco mine in Bernic Lake, Manitoba.

Design

- Prime Consultant for a water quality monitoring station upgrade for Public Works and Government Services Canada. Submitted for an award through ACEC-MB.
- Structural Engineer of Record for a 27 storey office building in downtown Calgary. The design included four levels of underground parking, a cascading atrium from ground to third floor level, and cast in place concrete floor plates and elevator core.
- Structural Engineer of Record for a six storey hotel in Winnipeg. The design included upper level tie walls to permit clear spanning over the generous main floor lobby area.
- Structural Engineer of Record for a condominium project in Calgary.
- Mechanical Engineer of Record for a new rooftop HVAC unit for an existing school. Servicing eight classrooms.
- Civil Engineer of Record for design of storm water management for a large agricultural equipment dealership in Steinbach.

- Structural Engineer of Record for a theatre at the University of Calgary.
- Structural Engineer of Record for many of the expansions at the North End and South End Water Pollution Control Centers in Winnipeg.
- Engineer of Record for replacement of the pouring crane at the Griffin Wheel plant in Winnipeg. Reduced cycle time significantly.
- Structural Engineer of Record for a new school in northwest Ontario.

Design Build

- Design and construction of several structural flood protection systems for properties that had survived the 1997 flood.
- Insertion of a mezzanine into the middle of an ongoing industrial plant to improve product flow through relocation of a key aspect of the operation.
- Implementation of a patent pending storage tank repair system on several large glass coated steel tanks.
- Insertion of equipment into the middle of an ongoing mineral processing facility to improve the efficiency of gravity separation.

Forensics

- Investigation and reporting on facilities subject to distress arising from swelling and shrinkage of clay.
- Investigation and reporting on facilities subject to distress due to water penetration through the building envelope.
- Investigation and reporting on facilities subject to distress due to structural and/or mechanical issues (e.g. vibration, thermal expansion, etcetera).

Mentorship and Training

- Conducting of over 25 group workshops and many counseling sessions with internationally educated engineers through Manitoba Start.
- Instructing a 52 hour course in Project Administration at Red River College under their pilot program designed to bridge internationally educated civil engineers into the Manitoba construction community.
- Facilitating a half day workshop on Coaching for Supervisors at the Manitoba Heavy Construction Association Expo.