

C. JAMES MONTGOMERY
Ph.D., P. Eng., LEED® AP
Partner



Background

Jim Montgomery joined Cohos Evamy as a Partner in 1988. He is committed to working with owners and other members of the design and construction teams to achieve innovative, reliable, and serviceable structures within project deadlines and budget constraints. He enjoys working with contractors and coordinating the various engineering disciplines on projects. Jim has been responsible for the project management, structural design and construction review of a variety of commercial, industrial, and civil engineering projects. He also provides construction engineering services to contractors and has investigated structural failures.

Education

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| 2003 | LEED Accredited Professional |
| 1977 | Ph.D., Structural Engineering, The University of Illinois, Urbana-Champaign |
| 1975 | M.S., Structural Engineering, The University of Illinois, Urbana-Champaign |
| 1973 | B.Sc., Civil Engineering, The University of Alberta - won the APEGGA Gold Medal |

Affiliations

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| 1987-Present | Technical Committee on Steel Structures for Buildings (CSA CAN3-S16.1) |
| 1983 | Committee on Loads and Forces for Design of Highway Bridges (CAN/CSA-S6) |
| 1992-Present | Canadian National Committee on Earthquake Engineering |
| 1995-1998 | APEGGA Council Member Registered Professional Engineer in Alberta, British Columbia, Saskatchewan, Manitoba and Ontario |
| 2002-2003 | CEA Board of Directors |
| 2005 | Fellow, Canadian Society for Civil Engineering |
| 2006 | Designated Structural Engineer, APEGBC |

Selected Project Experience

BUILDING PROJECTS

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|---|---------------------------|
| Royal Alberta Museum | Edmonton/\$200 M |
| University of Alberta/Capital Health - Edmonton Clinic - Programming | Edmonton/\$577 M |
| SAIT Trades and Technology Complex | Calgary/\$300 M |
| Edmonton Clinic – Health Academy and Health Services Building | Edmonton/\$370 M combined |
| Eastwood Primary Health Care Centre – Programming | Edmonton/\$12 M |
| Sturgeon Hospital Feasibility Study and Master Plan | St. Albert/\$23 M |
| River Cree Resort and Casino | Edmonton/\$67 M |
| McMaster University – Ultra-High Resolution Electron Microscopy Facility | Hamilton/\$3.1 M |
| Listowel Memorial Hospital Redevelopment | Listowel, ON/\$15 M |
| PCL Centennial Learning Centre | Edmonton/\$12 M |
| Trillium Centre (Multi-Campus Learning Facility) | Sherwood Park/\$15 M |
| Mother Teresa Catholic Elementary School | Edmonton/\$3.8 M |
| Shaw Conference Centre – Hall D Expansion | Edmonton/\$24 M |
| University of Alberta - Centennial Centre for Interdisciplinary Science – Phase 1 | Edmonton/\$11 M |

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| Syncrude Technology Centre, Keyano College | Fort McMurray/\$7.5 M |
| University of Alberta/NRC - National Institute for Nanotechnology | Edmonton/\$48 M |
| University of Alberta Hospitals, Level 4 East Mechanical Penthouse | Edmonton/\$5.8 M |
| Royal Alexandra Hospital – Robbins Pavilion | Edmonton/\$106 M |
| Royal Alexandra Hospital – Southeast Parkade | Edmonton/\$10.5 M |
| Royal Alexandra Hospital Kingsway Parkade and Pedway | Edmonton/\$6 M |
| Strathcona Dementia Care Centre | Edmonton/\$3 M |
| Westview Health Centre | Stony Plain/\$18.4 M |
| NAV CANADA Saskatoon Airport Air Traffic Control Tower | Saskatoon/\$4.7 M |
| University of Alberta, Markin/CNRL Natural Resources Engineering Facility | Edmonton/\$55 M |
| University of Alberta - Electrical and Computer Engineering Research Facility | Edmonton/\$27 M |
| University of Alberta - Engineering Teaching and Learning Centre | Edmonton/\$23 M |
| University of Alberta - Engineering Teaching and Learning Centre – Student Common | Edmonton/\$1 M |
| Transalta Arts Barns | Edmonton/\$5.5 M |
| Edmonton International Airport Re-Roofing and Structural Seismic Upgrades | Edmonton/\$6.5 M |
| The Stollery Centre Addition, U of A Faculty of Business | Edmonton/\$1.2 M |
| Muir Lake Community School Modernization and Addition | Stony Plain/\$2.1 M |
| Woodhaven Junior High School Modernization and Addition | Spruce Grove/\$0.9 M |
| Meridian Heights School Modernizations and Additions | Stony Plain/\$2.6 M |
| Corod Pump Manufacturing Facility | Edmonton/\$4.4 M |
| UFL Foods Inc. Warehouse | Edmonton/\$3.3 M |
| Princeton Developments Warehouse and Office Building | Edmonton/\$1.7 M |
| McConnell Place West | Edmonton/\$2.3 M |
| Defence Construction Canada Headquarters Building 181 | CFB Namao/\$4 M |
| Parkland County Centre | Stony Plain/\$4 M |
| RCMP "K" Division Headquarters | Edmonton/\$36.5 M |
| Francis Winspear Centre for Music | Edmonton/\$31 M |
| West Memorial Building | Ottawa/\$45 M |
| CIBC Main Branch | Edmonton/\$5.6 M |
| CIBC Meadowlark Branch | Edmonton/\$1.1 M |
| CIBC Millwoods Branch | Edmonton/\$1 M |
| CIBC Westgate Branch | Edmonton/\$2.2 M |
| Northwestern Utilities Limited Control Centre | Edmonton/\$2.6 M |
| Alberta Motor Association Provincial Offices | Edmonton/\$10 M |
| CSIS Headquarters Building, Solicitor General of Canada | Ottawa/\$100 M |
| Parkview Estates Apartment Complex | Grande Prairie/\$2.4 M |
| St. Albert Protestant Schools District Office Facility | St. Albert/\$2.5 M |
| Manning General Hospital | Manning/\$5 M |
| Leduc/Strathcona Health Unit/Design-Builder's Team | Sherwood Park/\$2.6 M |
| Norwood Redevelopment - CHOICE Day Health Centre | Edmonton/\$2 M |
| Walter C. Mackenzie Health Sciences Centre MRI Facility | Edmonton |
| Aberhart Hospital - Fire & Life Safety Upgrade | Edmonton/\$3 M |
| Hong Lok Care Centre | Edmonton/\$6.5 M |
| Royal Alexandra Hospitals, Linen Control Centre | Edmonton/\$1.7 M |
| NovAtel Communications Manufacturing Plant | Lethbridge/\$6 M |
| Northern Agriculture Research Centre | Beaverlodge/\$15 M |
| Londonderry Mall, Eatons Store | Edmonton/\$7 M |
| Dow Chemical Canada Inc. Hydrocarbons Control & Maintenance Building | Fort Saskatchewan/\$10 M |
| Olympia & York Developments Ltd. City Centre Project | Edmonton/\$62 M |
| Westmount Shopping Centre Renovations | Edmonton/\$3.5 M |
| Northgate Centre | Edmonton/\$20 M |
| Bonnie Doon Mall Renovations | Edmonton/\$14 M |
| Confederation Mall | Saskatoon/\$11 M |
| St. Albert Centre Renovations | St. Albert/\$2.1 M |
| I G A Store | Lethbridge/\$.64 M |
| Kingsway Mews | Edmonton/\$13 M |
| Hop's Handbag Company Retail Store | Edmonton/\$2.5 M |
| Building Evaluation – CIBC Branch | Innisfree, Alberta |
| Building Evaluation – Michener Centre | Red Deer, Alberta |

BRIDGE PROJECTS

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| McKenzie Road Over Highway 2 Grade Separation | Red Deer |
| Hwy 11 over Medicine River –Superstructure replacement | near Benalto |
| Hwy 779 Over Hwy 16 - Structural Steel Alternative | near Edmonton |
| Alberta Transportation 2007 Bridge Rehabilitation Program | Central Region, Alberta |
| Alberta Transportation 2005/2006 Bridge Rehabilitation Program | Central Region, Alberta |
| Alberta Transportation 2004 Bridge Rehabilitation Program | Central Region, Alberta |
| Alberta Transportation 2000 Bridge Rehab. Program (three bridges) | North Central Region, Alberta |
| Alberta Transportation 1999 Bridge Rehab. Program (five bridges) | North Central Region, Alberta |
| Alberta Transportation 1998 Bridge Rehab. Program (seven bridges) | North Central Region, Alberta |
| Alberta Transportation 1997 Bridge Rehab. Program (four bridges) | Peace Region, Alberta |
| Low Level Bridge Northbound Rehabilitation | Edmonton |
| Anthony Henday Drive SE Ring Road – Structural Design Quality Assurance Review | Edmonton |
| 23 Avenue Interchange - 19 Avenue Underpass and Retaining Walls | Edmonton |
| Trans-Canada Highway Twinning – Animal Overpass Structures | Lake Louise |
| Deerfoot Trail Structures - Canal Bridge Widening, Basket Weave Structure | Calgary |
| Alberta Transportation Bridge Aesthetics Study | Alberta |
| Terwillegar Drive Pedestrian Bridge | Edmonton |
| James MacDonald Bridge Assessment and Preliminary Design | Edmonton |
| Clover Bar Bridge Replacement Precast Concrete Alternative | Edmonton |
| 119 Street/Blackmud Creek Bridge, Preliminary Design | Edmonton |
| Anthony Henday/Yellowhead Trail - Structural Steel Alternative | Edmonton |
| Dunvegan Suspension Bridge Overload Study | Peace River |
| Scona Road Bridge Rehabilitation | Edmonton |
| Fording Coal, Coal Silo and Conveyor Gallery | Elkeford, B.C. |
| Water Flume, CN Rail | Near Boston Bar, B.C. |
| Truss Bridge Strengthening, CN Rail | Near Ashcroft, B.C. |
| Highway 60 Over Highway 16X Grade Separation, Design Review | West of Edmonton |
| Grierson/McDougall Overpass Rehabilitation | Edmonton |
| Rossdale/McDougall Overpass Rehabilitation | Edmonton |
| Belgravia Road/116 Street Pedestrian Overpass | Edmonton |
| McDougall Hill Guardrail and Slope Stabilization | Edmonton |
| Annacis Island Bridge, Construction Engineering | New Westminster, B.C. |
| 75 Street/Whitemud Drive Grade Separation | Edmonton |
| Terwillegar Drive/Whitemud Drive Overpass | Edmonton |
| Connors Road Pedestrian Overpass | Edmonton |
| 122 Street/Whitemud Drive Grade Separation, Preliminary Design | Edmonton |
| Blackmud Creek Bridge, Preliminary Design | Edmonton |
| Alyeska Pipeline Bridge, Pipe Stress Analysis | Edmonton |

CULVERT & TUNNELING PROJECTS

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| Hamelin Creek Arch, Hwy 725 | Peace Region, Alberta |
| Alberta Infrastructure and Transportation, ABC Culvert Design Guidelines | |
| City of Edmonton/Lafarge Canada Inc. - Precast Concrete Segment Tunnel Liner | Edmonton |
| SLRT University Station, Preliminary Design | Edmonton |
| Trans Canada Highway - Animal Overpass Arch Structures | near Banff |
| Syncrude Arches, Highway 63 | Fort McMurray |
| Cardinal River Coals, Failure Investigation of Long-Span Metal Culvert over Highway 40 | near Hinton |
| Tunnel Design Study, The City of Edmonton | Edmonton |
| Sphinx Creek Culvert, | near Gregg River |
| Highway 16 - CN Rail Arch Overpass | near Obed |
| SESS Stage 1 Sewer Tunnel | Edmonton |
| Mill Creek 1/C Remediation Stage 4 Tunnel | Edmonton |
| NEST Stage NC1 Sewer Tunnel | Edmonton |

FAILURE INVESTIGATIONS, STUDIES AND ARBITATIONS (partial list)

Mining Services International, Fort McMurray

carried out a structural investigation to determine the cause of the failure of the supports for a silo that was used to contain ammonium nitrate prill used for blasting operations at the Suncor Inc. plantsite

Triple Loop Roller Coaster Accident Investigation, West Edmonton Mall, Edmonton

directed investigation for the Alberta Attorney General and the Board of Inquiry into the cause of the accident which killed three people and seriously injured a fourth

Jim Montgomery acted as an expert witness in the law suit that ensued following the accident

Cardinal River Coals Ltd., Hinton, Alberta

carried out a structural investigation to determine the cause of the failure of a long-span corrugated metal culvert during or shortly after construction

Alberta Food Products, Fort Saskatchewan, Alberta

investigated the causes of the failure of a large grain silo at a food processing plant

Henryk Farms, near Gibbons, Alberta

investigated the causes of the failure of the structural supports for grain bins at a storage facility

Agricom at Edmonton Northlands, Edmonton

reviewed problems related to the design of large span steel HSS trusses on behalf of the contractor during the construction of the facility

Munter Residence and Grocery Store, Wainwright, Alberta

reviewed damage caused by an accidental explosion

Wave Guide Bridges, Northern Warning System

investigated the cause of failure of wave guide bridges under the action of wind loading

The Alberta New Home Warranty Program

Abitrated twelve disputes arising from the construction of residential dwellings