

Bruce Jamieson, PhD, PEng

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Education

PhD, Avalanche Mechanics, 1995, Dept. of Civil Engineering, University of Calgary.

Professional affiliations

- Professional Member of Canadian Avalanche Association since 1984. President 1992-95.
- Professional Engineer, British Columbia since 1996 and Alberta 1995-2019.
- Member of Canadian Geotechnical Society (CGS) since 2002, CGS Geohazards Committee, Canadian Society for Civil Engineering since 2007, Association of Geohazard Professionals since 2018.

Experience

- Since 1997, consultant/reviewer on avalanche protection/risk assessment/mapping projects in North and South America for occupied structures (residential and backcountry), highways, resource roads, trail systems, worksites, energy corridors, structures for transmission lines and ski lifts, and mine infrastructure.
- Avalanche forecasting for ski areas or backcountry operations 1981 to 2014.
- Instructor for Canadian Avalanche Association Industry Training Program since 1993.
- Instructor of over 30 avalanche awareness courses 1983 to 1996.
- Investigations of six fatal avalanches including the 1999 avalanche in Kangiqsualujjuaq, Quebec.
- Technical tours of avalanche defenses in near Innsbruck (2008, 2018), Galtür (2000), Iceland (1999), France (1998), Switzerland (1997).

Selected distinctions

- Peter Schaerer Lifetime Achievement Award from Canadian Avalanche Association, 2014.
- American Avalanche Association Honorary Fellowship, 2014.
- Visiting Researcher, Swiss Federal Institute for Snow and Avalanche Research, summer 2002 and fall 2008.

Academic work

- Professor, Dept. of Civil Engineering, U. of Calgary until August 2015, then Professor Emeritus.
- NSERC Research Chair in Snow Avalanche Risk Control, 2004-2014.
- Principal Investigator of the Applied Snow and Avalanche Research group at the University of Calgary (ASARC). Supervised 24 graduate students investigating avalanche runout estimation, hazard mapping, avalanche forecasting, and snowpack tests. Supervisor of field studies for snow and avalanche research over 24 winters.

Selected publications

- *Planning Methods for Assessing and Mitigating Snow Avalanche Risk* (B. Jamieson, Ed.), Canadian Avalanche Association, 2018.
- *Technical Aspects of Snow Avalanche Risk Management* (C. Campbell, S. Conger, B. Gould, P. Haegeli, B. Jamieson, G. Statham, Eds.), Canadian Avalanche Association, 2016.
- *Land Managers Guide to Snow Avalanche Hazards in Canada*, (B. Jamieson, C. Stethem, P. Schaerer, D. McClung, Eds.), Canadian Avalanche Association, 2002.
- Over 70 papers in ISI journals and over 100 conference papers. Listed online at snowline.ca or www.ucalgary.ca/publications.
- First author of four books on snow avalanches, including two on avalanche accidents. Sales exceed 120,000 books.