

Bruce Jamieson, PhD

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Education

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

Professional affiliations

- Professional Member (retired) of Canadian Avalanche Association since 1984. President 1992-95.
- Professional Member of American Avalanche Association since 1992.

Selected awards and distinctions

- Gordon Ritchie Service Award from Avalanche Canada, 2021
- Peter Schaerer Lifetime Achievement Award from Canadian Avalanche Association, 2014.
- Honorary Fellowship from American Avalanche Association, 2014.
- Honourary Membership, Canadian Ski Patrol System, 2008.
- Honourary Member, Association of Canadian Mountain Guides, 2006.

Experience

- Professor, Dept. of Civil Engineering, U. of Calgary until August 2015, then Professor Emeritus.
- Principal Investigator of the Applied Snow and Avalanche Research group at the University of Calgary (ASARC). Supervisor of field studies for snow and avalanche research over 24 winters.
- Avalanche forecasting for ski areas or backcountry operations 1981 to 2014.
- Instructor for Canadian Avalanche Association Industry Training Program 1993 to 2020.
- Instructor of over 30 avalanche awareness courses 1983 to 1996.

Selected publications

- *[Avalanche Craft – Strategies for reducing risk in the backcountry](#)*, with Terry Palechuk, 2021.
- *[Backcountry Avalanche Awareness, 1989-2018](#)*. 2018 edition with Terry Palechuk. Sales of all editions exceed 120,000.
- *[Avalanche Accidents in Canada 5, 1996-2007](#)*, Jamieson, B., P. Haegeli and D. Gauthier. 2010. [Canadian Avalanche Association](#), Revelstoke, BC, 429 pp.
- Jamieson, B. and T. Geldsetzer. 1997. *[Avalanche Accidents in Canada: 1984-96](#)*, [Canadian Avalanche Association](#), Revelstoke, BC, 203 pp.

Training videos

See <https://www.brucejamieson.ca/videos>

Education and training services

Recent topics include: avalanche risk for workers and backcountry recreationists

- energy balance at the snow surface
- human triggering of avalanches
- applying uncertainty and risk concepts to decisions
- modern snowpack tests
- forecasting deep slab avalanches