## THE SEVEN ELEMENTS OF AVALANCHE FORECASTING

## David M. McClung\*

ABSTRACT: The first element of avalanche forecasting is the definition: the prediction of current and future snow instability in space and time relative to a given triggering level. The other six elements include: the goal, human factors (perception and risk propensity), information types, reasoning process, scale (in space and time) and the decision-making process. In this presentation, I will briefly introduce the seven elements with emphasis on the human factors. Further, I will show that the seven elements are all are strongly related to each other and I will indicate the links to terrain. I will argue that the root cause of most accidents involving human triggering is failure in human perception.

KEYWORDS: avalanches, avalanche forecasting, avalanche accidents

 David M. McClung, Department of Geography, University of British Columbia, 1984 West Mall, Vancouver, B.C. V6T 1Z2; tel: 604-822-9157; fax: 604-822-6150; email: mcclung@geog.ubc.ca