



EIC Fellow

Gordon A. Fenton

Nominated by the Canadian Geotechnical Society

Dr. Gordon Fenton has made significant contributions to geotechnical engineering research and practice in the area of risk assessment and probabilistic methods. He pioneered (with D.V. Griffiths) a new method of probabilistic analysis called the Random Finite Element Method. The method combines finite element analysis and random field theory to account for the variable nature of geomaterials including spatial variability in geotechnical engineering applications.

He is the senior author of an acclaimed textbook on risk assessment and probabilistic methods in geotechnical engineering and is North American Editor of the premier journal in this area. Dr. Fenton is Canada's leading expert on the application of probabilistic methods to quantify risk in geotechnical engineering practice. His expertise has been sought after as a member of code-writing committees of the National Research Council, including the National Building Code of Canada.

He was the technical lead for the committee responsible for the foundation sections of the 2014 edition of the Canadian Highway Bridge Design Code. In 2015, he was appointed chair of the same committee which is responsible for revisions to the code due in 2020. Dr. Fenton's expertise and contributions to Canada's two authoritative building codes are outstanding, impactful and benefit all Canadians.

Ladies & gentlemen and Mr. President, please welcome Gordon Fenton as a Fellow of the Engineering Institute of Canada.