



Individual Membership Form

Personal information

Title: **Dr.**

Gender: (M/F) **M**

Name: **SMITH, Marc**

Suffix:

Date of birth: **1962/06/29**

Nationality: **Canada**

Mailing address (Street or Postal Box): **75 Rene-Levesque west, 3rd floor**

City: **Montreal**

Province/State: **Quebec**

Postal code: **H2Z 1A4**

Country: **Canada**

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Website: **www.hydroquebec.com**

Phone number: **514 289-2211 ext. 5162**

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Current affiliation: **Hydro Quebec**

Job title: **dam safety engineer**

Education Background

Highest degree received: **Ph.D.**

Received from: **Ecole Polytechnique de Montreal**

Major: **risk and geotechnical engineering**

Professional background

Professional background relevant to GEOSNet:

Marc Smith is a geotechnical engineer with more than 23 years of practical experience. He has been involved in the design and construction of many large embankment dams as well as in the surveillance and monitoring of dams during impoundment and during operation. He has performed a variety of safety analyses and evaluations for dams in the province of Quebec, Latin America, Africa and South-East Asia.

He is currently working in the Dams and Civil Works division of Hydro Quebec conducting embankment dams safety analyses and is responsible for the development of a risk-based system for the evaluation of the most critical aspects concerning the safety of dams and the priority rating of rehabilitation works to be done on the structures and the instrumentation systems. He contributed to the book *Risk and uncertainty*

in dam safety and is presently a member of TC 32 (risk management) of the ISSMGE.

Main reasons for your interest in GEOSNet and potential contributions to the network:

I am presently doing research to apply Bayesian networks to practical case studies. The interactions between failure mechanisms must be considered to accurately assess the overall risk of a system. Also, a more global approach is required to identify the factors contributing most to overall risk and to justify rehabilitation measures according to their potential to reduce risk. I believe a forum like GEOSNet would allow me to share experiences with colleagues dealing with similar problems and would also allow me to learn from them.