

BRIAN MORSE, ing. (P.Eng.), Ph.D.
Curriculum Vitae

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Currently	Full Professor Department of Civil and Water Engineering, Université Laval, Québec, QC, Canada
Courses taught	Fluvial Hydraulics, River Engineering, Hydrology, Hydraulic Structures, Water Mechanics, Ice Processes, River Modeling, Hydraulics Laboratory.
Grants	National Science and Engineering Research Council Discovery, Accelerator, Collaborative Research and Development and Strategic grants plus many others.
Examples of Research Contracts	<ul style="list-style-type: none">• Nine studies for protecting approximately 17 international nuclear power stations water intake systems.• Many studies related to commercial shipping in Canadian waterways and the evaluation of electronic navigation management systems and infrastructure.• Development of neural network models for the prediction of Ottawa River Discharge, Saint-Lawrence River water levels and ice-related processes.• Development of hydrodynamic river models (e.g., Saint-Lawrence River).• Risk study of the mobility of unexploded ordnances for National Defence.• Design and construction of various ice control structures.
Expert Witness	Superior Court Quebec: impact of roads on a declared wetland. For the Province of Alberta and the Government of Canada – expert advisor for Environmental assessment of a dam construction on the Peace River.
Ph.D. 1990	Civil engineering (modeling of sediment transport in tidal multi-reach systems) with Environment Canada at University of Ottawa.
B.Sc.A. 1984	Civil Engineering, University of Ottawa in the coop program with option in management.

Examples of professional contributions:

- (A) Conference chair: 18th Workshop on River Ice and the Environment (CRIPE)
- (B) Scientific editor for the 15th International Specialty conf. on cold regions eng. (ASCE-CSCE)
- (C) Associate editor Canadian Journal of Civil Engineering, 2006-2010

Publications

- 40+ journal papers; 2 chapters in books; 50+ peer-reviewed conferences; 70+ technical reports; 40+ studies directed.

Examples of distinctions:

- 2015 Michel award for lifetime contribution to River Ice
- 2014 Canadian Society for Civil Engineering Camille A. Dagenais award for outstanding contributions to the development and practice of hydrotechnical engineering in Canada
- 2003, Keefer medal for best paper in Can. J. of Civil Eng.