

Curriculum Vitae for Michael Patrick Bradley, Ph.D., P.Eng.

Current Contact Information:

Associate Professor

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Research Interests:

I am an experimental physicist with a strong background in precision measurements and metrology. Over my career I have been involved in the development of a variety of pioneering experiments involving precision detectors (e.g. single ion trapping for precision atomic mass measurement, new methods for semiconductor device fabrication and metrology exploiting quantum effects, and development of superconducting devices for precision measurements). I am fluently bilingual in French and English, and I have just returned to the U of S after spending two years working as a Research Fellow at the BIPM (Bureau International des Poids et Mesures) in Sèvres, France.

Degrees:

Ph.D. in Physics, Massachusetts Institute of Technology, Cambridge, MA, USA (February 2000)

Thesis: *A Sub-ppb Measurement of the Mass of Cesium for a New Determination of the Fine-Structure Constant*

Advisor: Prof. David E. Pritchard Committee Members: Prof. Wolfgang Ketterle, Prof. Aron Bernstein

B.Sc. (Honours) in Applied Physics, U. of New Brunswick, Fredericton, NB, Canada (May 1992)

Thesis: *Construction of an Optically-Controlled Optical Switch*

B.Sc. Thesis Advisor: Prof. J. Vanderlinde

Positions Held:

July 2008-present: Associate Professor with Tenure, Department of Physics and Engineering Physics, University of Saskatchewan

Sept. 2009- Aug. 2011: Research Fellow, Electricity Department, Bureau International des Poids et Mesures (BIPM), 92312 Sèvres Cedex, France

July 2008: Awarded Tenure and promoted to Associate Professor, Department of Physics and Engineering Physics, University of Saskatchewan

July 2003-June 2008: Assistant Professor, Department of Physics and Engineering Physics, University of Saskatchewan (taught courses in Electronics, Electromagnetics, and Introductory Physics)

Feb. 2000- May 2003: Senior, then Principal Scientist at Axcelis Technologies, Beverly, MA, USA

Sept. 1992-Feb 2000: Graduate Student, Department of Physics, Massachusetts Institute of Technology

May 1992-Aug. 1992: IAESTE Summer Student, Danish Institute for Fundamental Metrology (DFM)

Awards:

USSU (U. of Saskatchewan Students' Union) Teaching Excellence Award 2009

U of S Department of Physics & Engineering Physics Teaching Award 2007

APEGS (Assoc'n of Prof. Engineers and Geoscientists of Sask.) Promising Member Award May 2007

MIT Industry Forum Fellowship, Massachusetts Institute of Technology, 1992
Lieutenant-Governor's Award for highest GPA in Science, University of New Brunswick, 1992
Governor-General's Award for highest GPA, University of New Brunswick, 1992

Professional Society Memberships:

American Physical Society (2000-present)

IEEE (2000-present)

Canadian Association of Physicists (2003-present)

Registered Professional Engineer (P.Eng.) in the Province of Saskatchewan

Languages:

English (mother tongue), French (fluent spoken & written)