

CURRICULUM VITAE

ERIC WILLIAM GILL, Ph.D., P.Eng.

Faculty of Engineering and Applied Science

Memorial University of Newfoundland

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EDUCATION

- 1999 Memorial University of Newfoundland
- Ph.D. (Engineering Electromagnetics)
- Dissertation: The Scattering of High Frequency Electromagnetic Radiation from the Ocean Surface: An Analysis Based on a Bistatic Ground Wave Radar Configuration.*
- 1990 Memorial University of Newfoundland
- M.Eng. (Engineering Electromagnetics).
- Thesis Title: *An Algorithm for the Extraction of Ocean Surface Parameters from Wide Beam HF Radar (CODAR) Backscatter.*
- 1980-88 Memorial University of Newfoundland
- Expanded academic background with additional course work in mathematics, physics and engineering. Entered Faculty of Engineering and Applied Science as a part-time graduate student, September, 1987. Studied with the Remote Sensing group at C-CORE in the area of ground wave radar as applied to the sensing of ocean waves.
- 1977 Memorial University of Newfoundland
- B.Sc. (1st class) major in Physics, minor in Math, and B.Ed. (1st class)

PROFESSIONAL EXPERIENCE

- 2009(Sept.) - Present Memorial University of Newfoundland
- Professor** (Electrical Engineering)
- teaching of fundamental and applied electromagnetics courses

- teaching junior circuits courses
 - conducting research in rough surface scattering of high frequency radiation (application is in ocean remote sensing)
- 2007(Jun.) - 08(Jun.) **Visiting Scholar** at the Australian Coastal Oceans Radar Network (ACORN) Lab at James Cook University (Townsville, Australia)
- 2003(Sept.) - 2009 Memorial University of Newfoundland
Associate Professor (Electrical Engineering)
- 2000(July) - 2003 Memorial University of Newfoundland
Assistant Professor (Electrical Engineering)
- 1999(Fall) Memorial University of Newfoundland
Lecturer in Electromagnetics for Communications I (6814) to Term 6 Engineering students – computer and communications option.
- 1996-1999 Memorial University of Newfoundland
Part-time **research and project engineer** in the Faculty of Engineering and Applied Science.
- 1990-95 Centre for Cold Ocean Resources Engineering (C-CORE) (Part time)

(1) Examining bistatic HF radar configurations for the purpose of developing bistatic cross sections of the ocean surface. (2) Worked under contract to the Dept. of Fisheries and Oceans to examine surface current and wave regimes on the Grand Banks. (3) Developed and applied algorithms to extract ocean wave information from narrow and broad beam HF radar data. This work was carried out in conjunction with the Remote Sensing Group at C-CORE as well as personnel at Northern Radar Systems Limited.
- 1989-90 Memorial University
Teaching assistant in Electronic Communications and Complex Variables courses delivered to electrical engineering students.
- 1977-2000 (June) College of the North Atlantic (Formerly, Cabot Institute (College) of Applied Arts and Technology)

Instructor in mathematics, physics and electronics. Responsible for development and delivery of these courses in Architectural, Civil, Electrical and Electronics Engineering Technologies.

1974-1977 Memorial University

Teaching assistant in physics, chemistry, and calculus laboratories.

HONOURS AND AWARDS

2013-14 President's Award for **Distinguished Teaching** [Also, \$5k grant, \$2.5k travel fund]

2013-14 Dean's Award for **Teaching Excellence** [Also, \$1k grant]

2012 Professional Engineers and Geoscientists of Newfoundland and Labrador **Teaching Award**

2005 Elevation to *Senior Member* of the IEEE

1999 **Governor General's Gold Medal** in Graduate Studies (Memorial University of Newfoundland)

1999 **Dunsiger Award** for Excellence in Graduate Studies (Engineering, Memorial University of Newfoundland)

1998 Fellow of the School of Graduate Studies (Memorial University of Newfoundland)

1990 **Dunsiger Award** for Excellence in Graduate Studies (Engineering, Memorial University of Newfoundland)

FUNDING

2016-2017 **Business, Tourism, Culture and Rural Development** Grant [\$100k]

2015-2020 **NSERC** Discovery Grants [\$150k]

2015-2018 **NSERC** Discovery Accelerator Supplement [\$120k]

2015-2016 **Learnsphere Canada** (Commercialization, Consulting and Mentoring Program [\$16.75k])

2014-2015	MITACS Award for support of a post-doc student [\$60k]
2013-2015	Innovation, Business and Rural Development Grant [\$193k]
2010-2015	Atlantic Innovation Fund Award (Principal Investigator) [\$2.7M]
2010	MITACS Award for support of a post-doc student [\$15k]
2009	MITACS Award for support of a post-doc student [\$15k]
2010-2015	NSERC Discovery Grants [\$130k]
2005-2010	NSERC Discovery Grants [\$136k]
2001-2005	NSERC Discovery Grants [\$108.8k]
1996-98	Atlantic Accord Career Development Graduate Awards, Department of Career Development and Advanced Studies [\$15k]
1989-1990	Department of Career Development and Advanced Studies Faculty Award. [\$15k]
1989-1990	C-CORE Fellowship [\$12k]
1988-1989	Department of Career Development and Advanced Studies Career Award [\$15k]

PUBLICATIONS (see link below)

http://www.engr.mun.ca/~egill/index_files/publicationslist_Mar_2016.pdf

PROFESSIONAL ASSOCIATIONS AND CERTIFICATIONS

- **Professional Engineer** (Member of Professional Engineers and Geoscientists of Newfoundland and Labrador)
- **Level VII Teacher Certification** from the Province of Newfoundland and Labrador
- **Vocational (Post-Secondary) Teacher Certification** from the Province of Newfoundland and Labrador.
- **Senior Member of the IEEE**, including
 - Newfoundland Section, of which I served as **Scholarship Chair** for five (5) years, **Vice-Chair** for two (2) years, **Chair** for two (2) years, **Past Chair** for two (2) years ending Dec. 2011, and executive committee member-at-large 2012-2013.
 - Antennas and Propagation Society

- Oceanic Engineering Society
- **Member** of the American Geophysical Union (AGU)

PROFESSIONAL AND ACADEMIC SERVICE (PARTIAL)

- Member of numerous **Faculty committees** over the last thirteen years, including the **Committee on Undergraduate Studies** on which I have served as Vice Chair, **Committee on Graduate Studies, Undergraduate Admissions, Academic Development** (Undergraduate), **Chair of Academic Development** (Graduate), **Chair of Admissions and Awards** (Graduate), and several ad hoc and **search** committees.
- **Chair** of Faculty Promotion and Tenure Committee 2013–2014.
- Member of the **PEGNL Limited License Assessment Committee** 2013 –.
- Member of **Faculty Promotion and Tenure Committee** 2012–2013.
- **Awards (co)Chair** of the Newfoundland Electrical and Computer Engineering Conference (**NECEC**) for 2012, 2013.
- Member of **Teaching and Learning Advisory Committee on Faculty Recognition** 2011 – 2012.
- **Vice- Chair** of the Newfoundland Electrical and Computer Engineering Conference (**NECEC**) for 2011.
- **Technical Co-Chair** of the IEEE Canadian Conference on Electrical and Computer Engineering (**CCECE**) to be held in St. John’s, NL in May, 2009.
- **Technical Chair** of the Newfoundland Electrical and Computer Engineering Conference (**NECEC**) for 2003, 2004, 2005, and 2006, and 2008.
- Member of the **Senate Committee on Undergraduate Studies** 2001–2007.
- **Session Chair** at several national and international technical conferences.
- Served as an **examiner** or **Chair** on numerous Ph.D. comprehensive examinations and defences at the Faculty and University levels.
- Reviewed a significant number of papers for various IEEE and other international journals.

STUDENT AND POST-DOC SUPERVISION (see link below)

http://www.engr.mun.ca/~egill/index_files/student_supervision_jul2016.pdf