

# CURRICULUM VITAE

## BARNA SZABADOS, Dipl.Ing, PhD, P.Eng

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### EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Area of Study</u>	<u>Year</u>
Diplôme D'Ingénieur	Ecole Nationale Supérieure d'Ingénieur, Grenoble France	Electrical Engineering	1967
Master's Engineering	McMaster University Hamilton, Canada	Electrical Engineering	1969
Ph.D.Engineering	McMaster University	Electrical Engineering	1971

### AWARDS

2007	Outstanding Engineer Award, IEEE
2001	Induction to McMaster Hall of Fame.
1999	Chevalier de l'Ordre des Palmes Académiques, "for the exceptional technical contributions and dissemination of knowledge", awarded by the First Minister of France.
1987	Médaille Ampère, "for outstanding contributions to the field of Electrical Engineering", by the SOCIETE DES INGENIEURS ELECTRICIENS ET ELECTRONICIENS DE FRANCE.
1982-85	Westinghouse Chair in Energy Technologies
1982	MSU best teacher's award for the Faculty of Engineering
1977	Nomination to the E.W.R. Steacie Memorial Fellowship by the U. of New Brunswick

### ACADEMIC AND RESEARCH EXPERIENCE

2007-July	Professor Emeritus	Retired
2007-Apr	Visiting professor	ESIGELEC (Rouen) France (sabbatical)
1997-present	Director	Power Research Laboratory, McMaster University
Feb-Apr 2004	Visiting professor	ESIGELEC (Rouen) France
Feb-Apr 98	Visiting Professor	ISTASE (St Etienne, France)
1983-present	Professor,	Dept. of Electrical and Computer Engineering, McMaster U.
1980-1983	Associate Professor,	Dept. of Electrical and Computer Engineering, McMaster U.
1977-1978	Visiting Professor,	Dept. of Electrical Engineering, Sussex U., England
1976-1980	Associate Professor,	Department of Electrical Engineering, U.of New Brunswick
1971-1976	Assistant Professor,	Department of Electrical Engineering, U. of New Brunswick

## **INDUSTRIAL CONSULTING**

1975 to present:

Quanser Consulting Inc.; AGILE; ABEL computers; Amsterdam & Peroff (legal technical expert); Revenue Canada (R&D); Westinghouse; General Motors Canada; AVRO (Computer noise interference); Technical expert in Court, EEV against Revenue Canada Excise (Ottawa); CARRIER (Syracuse); TECHFORCE; EQUUS; Environment Canada; Texas Instruments (computers); SERV-O-TRONIC; Abel Microsystems (industrial controllers); NBTel/NB Power (distribution system); COMINCO; Dow Chemical of Canada; American Science and Engineering; Atwood and Merrill; Technical Expert in Court, ASE against Bell Laboratories, Madison; McGraw-Edison (New Jersey); General Electric (Schenectady); Canadian General Electric (Peterborough);

## **PUBLICATIONS**

- 135 Scientific publications in journals and conference proceedings
- 6 Invited speaker publications
- 6 Book contributions
- 2 Patents
- 14 Industrial reports and industry standards
- 10 Invited speaker and industrial workshops for Power Distribution Utilities
- 14 Standard Engineering Practices for New Brunswick Power Commission (distribution feeder management).
- 1 "Standard Operating Practice", NBEPC practice S.O.P. III - 2.00
- 1 "Joint Use Practice for NBPower and NBTel", operating practice.

## **PROFESSIONAL COURSES and WORKSHOPS CONDUCTED**

- "Harmonic Effects on Communication Interference", Tutorial IEEE PES, Feb. 1985.
- "Harmonic Measurements: Instrumentation and Techniques", Tutorial IEEE PES, Feb. 1985.
- "Harmonic Effects of Large Rectifier Installations on Power Systems", Nov. 30, 1983, Ottawa National Research Council Department of Electrical Engineering.
- "Technical Applications of Microprocessors", Nov. 6, 1982, short course to APEO Professional Development Series.
- "Inductive Coordination", 1 week course to Power and Tel. engineers, Minnesota, Feb. 1978.
- Telephone and Power Joint Symposium (2 days), Stevens Point, Wisc., Feb. 1977.
- "Telephone Interference", 1 week course to Manitoba Hydro, Calgary Power and Telephone, May 1976.
- "Interférence Téléphonique" (en francais), 1 week courses each to Hydro Quebec:
  - June 1975 in Quebec City,
  - Jan. 1975 in Montreal.

## **PROFESSIONAL SERVICES RENDERED AND OFFICES HELD**

2002-2005	Member of NSERC Scholarship Committee (2005 Chair)
2005-present	member of LPTF (licensing practice task force) with PEO
2003-present	Board of Advisor for ESIGELEC (France).
2002-2007	Regional Coordinator for International Activities in France (McMaster/French Consulate)
2002-2005	Quality Assessor to the Postsecondary Education Quality Assessment Board
2000-present	Accreditation Requirement Committee member of Professional Engineers of Ontario.
2000-2004	REPCOM member for region 7 of the IEEE.
1994-2000	Special advisor to Hong Kong Professional Engineering Association on accreditation.
1981-2000	Member of "Harmonic Propagation" working group IEEE, PES T.D. Society
1992-2001	<b>Canadian Engineering Accreditation Board</b> member
1993-2000	Scholarship Committee AUCC
1990-1994	FCAR committee member (centres d'excellences)
1988-1990	Organizing committee of International Conference ICHPS
1986-1989	Member of NSERC 67' Scholarship Committee
1986-1992	Canadian Accreditation Board visiting team member
1986-1988	Associate Editor of Canadian Electrical Engineering Journal
1982-1085	MIES Steering Committee Member
1981-1983	Secretary-Treasurer, IEEE Hamilton Computer Chapter
1976-1988	Member of ICEP working group of IEEE
1976-1977	CSEE Vice-President
1973-1976	Student Activity Co-ordinator, Executive Committee, IEEE section

## **COMMUNITY AFFAIRS**

2002-present	Assistant coach McMaster Fencing Club
1989-92	Parish Council (Committee chairman), St John's Church Ancaster
1989-90	Soccer Coach (Ancaster Soccer Ass.)
1977-80	Senior Fencing Coach
1976-79	President of Canadian Fencing Association
1976-79	Elder in St Paul's Church (Fredericton)
1976-78	Member of the Board of Directors of Canadian Olympic Association
1975-76	Member of Olympic Team Selection Committee (fencing)
1975-76	Member Technical Committee Olympic Games (Montreal)
1975-76	President of the New Brunswick Fencing Association
1973-75	Provincial Technical Director (fencing)