CURRICULUM VITAE ARTHUR B. McDonald

Contact

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Sudbury Neutrino Observatory Institute	830 Sandringham Place
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Academic Experience

Position	Institution	Year
Director	Sudbury Neutrino Observatory	1989 - Present
Gordon and Patricia Gray Cl	nair in Particle Astrophysics	
	Queen's University	2006 - Present
University Research Chair	Queen's University	2002 - 2006
Professor	Queen's University	1989 - Present
Professor	Princeton	1982 - 1989
Sr. Research Officer	Atomic Energy of Canada	1980 - 1982
	(Chalk River, Ontario)	
Assoc. Research Officer	Chalk River	1975 - 1980
Assist. Research Officer	Chalk River	1970 - 1975
Postdoctoral Fellow	Chalk River	1969 - 1970

Education:

Dalhousie University, Halifax, Nova Scotia - B.Sc. Physics (1964) Dalhousie University, Halifax, Nova Scotia - M.Sc. Physics (1965) California Institute of Technology, Pasadena, CA, USA - Ph.D. Physics (1969)

Awards:

Governor General's Gold Medal, Dalhousie, 1964

Rutherford Memorial Fellowship, (1969-1970)

Fellow of the American Physical Society, 1983

LL.D., honoris causa, Dalhousie, 1997

Fellow of Royal Society of Canada, 1997

Killam Research Fellowship, 1998

LL.D., honoris causa, University College of Cape Breton, 1999

D. Sc., honoris causa, Royal Military College, 2001

T.W. Bonner Prize in Nuclear Physics from the American Physical Society, 2003 Canadian Association of Physicists Medal for Lifetime Achievement in Physics, 2003 Natural Sciences and Engineering Research Council of Canada Award of Excellence, 2003

Gerhard Herzberg Canada Gold Medal for Science and Engineering, 2003

UK-Canada Rutherford Lecturer for the Royal Society, 2003

Welsh Lecturer at the University of Toronto, 2004

Basterfield Lecturer at the University of Regina, 2004

Sigma Xi Fund of Canada Award for Scientific Achievement, 2004

Bruno Pontecorvo Prize in Particle Physics, JINR, Dubna, 2005

Manne Siegbahn Lecturer at Stockholm University, 2005

E.W. Guptill Lecturer, Dalhousie University, 2005

Helmut Baer Lecturer, University of Michigan, 2006

D. Sc., honoris causa, University of Chicago, 2006

NSERC John C. Polanyi Award to the SNO team, 2006

Officer of the Order of Canada, 2007

Co-recipient, Benjamin Franklin Medal in Physics, 2007

Present Memberships:

2000 - Present: CIAR Cosmology and Gravity Program (Chair Advisory Board, 2000-

05)

2003 - Present: Certified member of Professional Engineers of Ontario

Ongoing Continuing service on Advisory Committees for International

Conferences in Neutrino and Particle Physics and as a referee for

international journals and funding agencies

Past Committee Memberships:

1976 - 1979:	Natural Sciences and Engineering Research Council (NSERC) of
	Canada, Subatomic Physics Grant Selection Committee
1978 - 1980:	Canadian Association of Physicists Council
1986 - 1988:	Nuclear Science Advisory Committee (NSAC) to U.S. Department of
	Energy and National Science Foundation
1986 - 1988:	TRIUMF Experiment Evaluation Committee

1983 - 1985: NSAC Instrumentation Subcommittee

1985 - 1988: NSAC Nuclear Theory Subcommittee

1990 - 1993: U.S. Institute for Nuclear Theory Advisory Board

1992 - 1995: Lawrence Berkeley Laboratory, Nuclear Physics Division Review

Committee

1992: Canadian Institute for Advanced Research (CIAR) Superconductivity

Review Committee

1996: Canadian Institute for Advanced Research (CIAR) Cosmology Review

Committee

1998 - 2002: Queen's University representative on TRIUMF Board of Management

2000 Conference Chairman, XIX International Conference on Neutrino

Physics and Astrophysics, Sudbury, Ontario

2002 KATRIN Experiment International Review Committee, Karlsruhe,

Germany

2003 Member of Advisory Committee for Selection of Project Manager for

Thirty Meter Telescope Project (Caltech)

2004 Member of Review Committee for the Faculty of Arts and Science of

the University of Toronto

1997 - 2004: IUPAP Committee on Particle and Nuclear Astrophysics and Gravitation
 2005 Member of Neutrino Science Advisory Group for US National Science

Foundation and US Department of Energy

1997 - 2006: Canadian Institute for Advanced Research (CIAR) Research Council

1997 - 2006: IUPAP Commission on Astrophysics (Secretary)

2002 - 2006: IUPAP Commission on Particle Physics (Assoc. member) 2003 - 2006: IUPAP Commission on Nuclear Physics (Assoc. Member)

Visiting Positions:

CERN, Geneva (2004), University of Hawaii (2004), Oxford University (2003) University of Washington, Seattle (1978) Los Alamos National Laboratory (1981) Queen's University (1988)

Personal

Birthdate: August 29, 1943, Citizenship: Canadian

Married (four children, five grandchildren)