CURRICULUM VITAE Arthur B. McDonald

Academic Experience				
Position	Institution		Year	
Professor Emeritus	Queen's University		2013 - Present	
Director Sudbu	ry Neutrino Observatory Collabo	oration	1989 - Present	
Gordon and Patricia Gray Chair in Particle Astrophysics				
	Queen's University		2006 - 2013	
University Research Chair	Queen's University		2002 - 2006	
Director	SNO Institute	1991-2003,	2006 - 2009	
Associate Director	SNOLAB Institute		2009 - 2013	
Professor	Queen's University		1989 - 2013	
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 Honorary Life Membership at Science North, Sudbury, Ontario, 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 at Dalhousie University, 2005 Helmut Baer Lecturer at 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, 2006 Co-recipient, Benjamin Franklin Medal in Physics, 2007 Donald R. Hamilton Lecturer at Princeton University, 2008 Huggins Science Lecturer at Acadia University, 2008 LL.D., honoris causa, Saint Francis Xavier University, 2009 Fellow of the Royal Society of the UK and the Commonwealth, 2009 Member of Canadian Science and Engineering Hall of Fame, 2009 Killam Prize in the Natural Sciences, 2010 Member of the Nova Scotia Discovery Centre Hall of Fame, 2010 E. Segre Lecture, Berkeley, 2010 D. Sc., honoris causa, University of Alberta, 2011 Guelph Waterloo Physics Institute Distinguished Lecturer, 2011 Henry Marshall Tory Medal, Royal Society of Canada, 2011 D. Sc., honoris causa, University of Waterloo, 2012 Order of Ontario, 2012 European Physics Society HEP Division Giuseppe and Vanna Cocconi Prize, 2013 Co-recipient, The Nobel Prize in Physics, 2015

Present Memberships:

- 1964 Present: Member of Canadian Association of Physicists
- 1969 Present: Member of American Physical Society (Fellow 1983-present)
- 1998 Present: Fellow of the Royal Society of Canada
- 2004 Present: Member of the Professional Engineers of Ontario
- 2000 Present: CIAR Cosmology and Gravity Program Associate (Chair of the Advisory Board, 2000-05)
- Ongoing Continuing service on Advisory Committees for International Conferences in Neutrino and Particle Physics and as a referee for international journals and funding agencies
- 2009 Present Fellow of the Royal Society of the UK and the Commonwealth
- 2009 2015 Member of the Princeton University Physics Department Advisory Council
- 2011- Present Member of the Board of Directors of the Perimeter Institute, Waterloo

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	
I	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)	
2009:	Member of Review Committee for Helmholtz Association program in	
Particle Astrophysics, Germany		
2009 - 2010	Member of the Scientific Advisory Committee for the INFN-LNGS	
	Gran Sasso Underground Laboratory	
2010 - 2012	Member of the Scientific Advisory Board, Max-Planck-Institut für	
	Kernphysik, Heidelberg	
2011-2013	Member of the External Advisory Board for the Kavli Institute for	
	Cosmological Physics and NSF Physics Frontier Center at the University	
	of Chicago	

Visiting Positions:

CERN, Geneva (2004), University of Hawaii (2004, 2009), Affiliate Graduate Faculty, University of Hawaii (2010-), Oxford University (2003, 2009), University of Washington, Seattle (1978), Los Alamos National Laboratory (1981), Queen's University (1988)

Personal

Birthdate: August 29, 1943, Citizenship: Canadian Married (four children, eight grandchildren)