

Brian Douglas Amiro Ph.D., P.Ag.

Professor

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Fellow of the Canadian Society of Agricultural and Forest Meteorology.

ACADEMIC BACKGROUND

Ph.D.	1983	Environmental Physics, Micrometeorology, Agricultural Meteorology	Land Resource Science, University of Guelph, Guelph, Ontario, Canada
M.Sc.	1979	Biology (Plant Ecology)	Biology Department, Laurentian University, Sudbury, Ontario, Canada
B.Sc. (Hons)	1977	Biology	Biology Department, Laurentian University, Sudbury, Ontario, Canada

EMPLOYMENT HISTORY

2014 to present. Professor. Department of Soil Science. University of Manitoba. Winnipeg, Manitoba.

2012 to 2014. Associate Dean (Academic), Faculty of Agricultural and Food Sciences, University of Manitoba, Winnipeg, Manitoba.

2004 to 2012. Professor and Department Head. Department of Soil Science. University of Manitoba. Winnipeg, Manitoba.

1997 to 2004. Research Scientist, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta, Canada. Group Leader Fire Research.

1998. Sessional Professor, Earth and Atmospheric Sciences, University of Alberta, Edmonton, AB.

1983 to 1997. Research Scientist (1989 to 1997: Head, Atmospheric and Biosphere Research Sections). AECL (Atomic Energy of Canada Limited). Environmental Science Branch, Whiteshell Laboratories, Pinawa, Manitoba, Canada.

1991 January to June. Assistant Professor in Agrometeorology. Department of Agronomy and Soil Science, University of Hawaii, Manoa, Hawaii.

TEACHING

University of Manitoba: Agroecology, Agricultural Meteorology (Undergraduate, Graduate), Agroecology Research Project, Principles of Scientific Research and Communication (Graduate), Soil Conservation and Management (Diploma).

University of Alberta: Instrumentation

University of Hawaii: Analysis of Turbulence Data, Agricultural Meteorology.

ADMINISTRATION EXPERIENCE

Graduate Chair, Department of Soil Science, University of Manitoba. 2015-2018.

Program Chair and Student Advisor, B.Sc. Agroecology Program, University of Manitoba. 2005-2011; 2017-present.

Associate Dean (Academic), Faculty of Agricultural and Food Sciences, University of Manitoba. 2012-2014.

Department Head, Soil Science, University of Manitoba. 2004-2012.

Group leader, Fire Research, Canadian Forest Service, 2002-2004.

Section Head, Atmospheric and Biosphere Research, Atomic Energy of Canada Limited. 1989-1997.

AFFILIATIONS AND OTHER ACTIVITIES

University Committees at University of Manitoba: Graduate Faculty Council, Senate, Senate Appeals, Senate Planning and Priorities, Faculty of Graduate Studies Appeals, Associate Deans, Faculty Research, Faculty Curriculum, Faculty Tenure and Promotions, Library Committee, Faculty Executive, Farm and Food Discovery Centre

Canadian Forest Service Principal Investigator on FLUXNET-Canada project and lead on NRCan funding for CFS participation. Fluxnet-Canada and Canadian Carbon Program Scientific Committee Member.

Adjunct Faculty. Department of Renewable Resources, University of Alberta, Edmonton. 2003 to 2006. Graduate student supervisor.

Adjunct Faculty. Soil Science Department. University of Manitoba, Winnipeg, Manitoba. 1993 to 1999. Graduate Student committee member.

External Examiner for Ph.D. defenses and faculty promotion/tenure. University of Guelph, McGill University, University of British Columbia, University of Northern British Columbia, York University, University of Alberta, University of Saskatchewan, Carleton University, McMaster University, Université de Montréal, University of Minnesota, University of California (Irvine), University of Colorado, University of Melbourne.

Editorial Board, Journal of Environmental Radioactivity. 1993 to 2003. Editor of special issue on environmental tritium.

Editorial Board. International Journal of Wildland Fire. 2002 to 2006.

Regional and Associate Editor. Agricultural and Forest Meteorology. 2004 to 2007. Editorial Board 2003 - present.

Editorial Board. Forestry Chronicle. 2003 to 2006.

Chair and member: NSERC (Natural Sciences and Engineering Research Council Canada); Environment and Sustainable Development panel of NSERC's Strategic Projects Program (2001-2003; chair 2002-03); Industrial Research Chair program (2013); Collaborative Research Development Program (2013, 2018).

Chair of Canadian Foundation for Innovation panel on Forestry proposals. 2006.

Reviewer for scientific journals: Applied Geochemistry; Agriculture, Ecosystems and Environment; Agricultural and Forest Meteorology; Arctic Science; Atmospheric Environment; Atmospheric Measurement Techniques; Boundary-Layer Meteorology; Canadian Journal of Botany; Canadian Journal of Forest Research; Canadian Journal of Soil Science; Carbon Management; Ecohydrology; Ecosystems; Environmental and Experimental Botany; Forest Science; Global Change Biology; Health Physics; Hydrological Processes; International Journal of Wildland Fire; International Journal of Remote Sensing; Journal of Applied Meteorology; Journal of Atmospheric and Ocean Technology; Journal of Environmental Radioactivity; Journal of

Geophysical Research; Nature Geoscience; Science; Transactions of Geoscience and Remote Sensing; Waste Management; Water, Air and Soil Pollution.

Reviewer for proposals and reports: IPCC Fourth Assessment Report, NSERC (Natural Sciences and Engineering Research Council Canada), NASA (National Aeronautics and Space Administration), NSF (U.S. National Science Foundation), Canadian Nuclear Safety Commission, Canadian Foundation for Climate and Atmospheric Sciences, U.S. Department of Energy, Canadian Foundation for Innovation, Canada Research Chair Program.

Panel member for Agriculture and Agri-Food Canada projects review.

Reviewer for Civil Engineering Graduate Program, University of Manitoba.

Professional Agrologist. Manitoba Institute of Agrologists and Agriculture Institute of Canada. 1994-1997 and 2004-present (member of Admission Review Committee), Alberta Institute of Agrologists 1998-2000.

Scientific Advisory Committees: Elk Island National Park, Northern Forestry Centre, CFS Research Reference Group (advisory to assistant deputy minister).

Steering Committee Member, 1992. Deep River Sciences Academy, Whiteshell Campus, Pinawa, Manitoba.

Member of Professional Societies (past & present):

American Meteorological Society (Chair, Committee on Agricultural and Forest Meteorology 2000-2003), American Geophysical Union, Canadian Society of Agricultural and Forest Meteorology (Director-1991/92, President-1993/94), Canadian Botanical Association, Canadian Meteorological and Oceanographic Society, Canadian Prairie and Northern Section of Air Pollution Control Association, Canadian Geophysical Union, Canadian Society of Soil Science, International Union of Radioecology, Manitoba Soil Science Society (President 2009/10).

PUBLICATIONS (Career):

Refereed journal: 90+

Conference Presentations: 165+

Reports (mostly government): 46

Other (book chapters, published book reviews, editor articles): 16