

Curriculum Vitae: **Professor Dan L. Johnson**

Dan Johnson holds an M.Sc. and Ph.D. from the University of British Columbia, Canada, (Institute of Animal Resource Ecology, and Department of Plant Science), where he attended on NSERC and Killam Scholarships, and a B.Sc. in Biology (High Honours) from the University of Saskatchewan, Canada. He is currently a Professor of Environmental Science at the University of Lethbridge, and Canada Research Chair (Tier I) for Sustainable Grassland Ecosystems. His courses at the University of Lethbridge have included mainly Biogeography, Data Analysis, and Environmental Science. His research concerns environmentally sustainable agriculture and land management, including development of alternatives to chemical pesticides, coexistence of wildlife and agriculture, grassland ecosystems, ecology of terrestrial and aquatic insects, invasive species, aquatic ecology, biodiversity, methods of forecasting, analysis of environmental data, and experimental analysis of ecological interactions of arthropods, birds, microbes and plants. He has conducted environmental and agricultural research in North America, Africa and Southeast Asia, and collaborates on research in China. He is a member of the Alberta Environmental Appeals Board, and has served on the Executive and Board of the American Institute of Biological Sciences, and in positions with a wide range of organizations and industry, including as the President of the Entomological Society of Canada. He has served on three "Species at Risk Recovery Teams", and for the Committee on the Status of Endangered Wildlife (Canada). Before taking his current academic position, Dr. Johnson was a Senior Research Scientist with Agriculture Canada and Agri-Food Canada, and has also conducted research and project work for CIDA, CABI, and the US Agency for International Development. He organized and chaired the world Orthopterists' Conference in Canmore, Canada. He has published over 85 refereed articles, and 200 other science-related publications.

Employment, positions and duties

- 1972-1974 Trades (metalwork, woodwork, horticulture)
- 1976-1977 Technical assistant, Caribou Range Ecosystem Study, Porter Lake, subarctic Canada. Supervisors: Ed Johnson, J. Stan Rowe, Steve Bradley, James Ritchie
- 1976-1982 University lab instructor (Geography and Biology, University of Saskatchewan; Statistics, and Experimental Design, University of British Columbia)
- 1983-2003 Research Scientist, Agriculture and Agri-Food Canada Research Branch (Senior Scientist RES-4 at departure)
- 1983- Project Manager and Leader of over 70 externally funded research projects, including NSERC Strategic, USAID, Alberta Crop Industry Development Fund, industrial partner funding, World Wildlife Fund, AAFC, CIDA, and others
- 1988-1989 'TDY' Consultant, US Agency for International Development, Washington, DC; (field experimentation in non-chemical anti-locust research, Mali, West Africa)
- 1989-1990 Review Committee member, CAB International Locust project (UK, Mali, Benin)
- 1990-2001 Chair, Computer Use and Development Committee, Research Centre, Lethbridge
- 1993-2002 Adjunct Professor, University of Lethbridge; Developed and taught the first courses in GIS, Biogeography, and Agroecosystem Modelling
- 1990-1996 Project Monitor for Canadian International Development Agency (CIDA), "Biological Control of Locusts and Grasshoppers in Africa"; CIDA GIS team member, Rice Production and Protection, Malaysia; Review Committee member, CABI, CIDA
- 1996-1998 Review Committee member, USDA/ARS; Review Committee member, NSERC
- 1998-1999 Vice-President, Entomological Society of Canada
- 1999-2000 President, Entomological Society of Canada
- 1999-2003 Editor and webmaster, Guide to Integrated Control, Western Committee on Crop Pests
- 2000-2006 Council Representative, American Institute of Biological Sciences, Washington, D.C
- 2001-2004 Member of the Academic Committee of Key Laboratory of Biocontrol Resources, Research and Utilization, Ministry of Agriculture, People's Republic of China, 2001-2004

- 2001-2003 Editor, Bulletin of the Entomological Society of Canada
 2002-2006 American Institute of Biological Sciences (www.aibs.org), Executive & Board Member
 2002-2008 National Burrowing Owl Recovery Team (Canada), member; two terms
 2003-2009 Member of the Editorial Board, Acta Entomologica Sinica
 2003-2007 Soapweed and Yucca Moth Recovery Team, member (Canada)
 2004-2007 Western Spiderwort Recovery Team, member (Canada)
 2004-2011 Canada Research Chair in Sustainable Grassland Ecosystems, University of Lethbridge (<http://www.chairs.gc.ca/>)
 2004- Professor of Environmental Science, Department of Geography, University of Lethbridge; tenured; affiliations: Dept of Biological Sciences, Dept of Math and Computer Science
 2004- Editorial Board Member, Insect Science (Blackwell Publishing)
 2005-2009 Adjunct Professor, Department of Geography, University of Guelph, Guelph, ON
 2004-2005 Organizer and Conference Chair, 9th International Conference of the Orthopterist's Society (world meeting held every four years)
 2004-2005 Local Arrangements Chair, Entomological Society of Canada, annual meeting
 2006-2009 Member, Arthropod subcommittee of COSEWIC, Committee On the Status of Endangered Wildlife in Canada
 2007-2011 Member, Alberta Environmental Appeals Board, <http://www.eab.gov.ab.ca/> .
 2008-2009 Contractor, Environmental research, 4 Wing Cold Lake, Department of Defence

University education

1978 B.Sc. *Magnis cum honoribus* (Biology, High Honours), University of Saskatchewan, Saskatoon; College Scholar Honours Thesis: Subarctic soil microarthropods and fire history (Supervisor: R.L. Randell)

1980 M.Sc. Department of Plant Science, & Institute of Animal Resource Ecology, University of British Columbia, Vancouver, B.C. M.Sc. dissertation: Growth and regulation of springtail populations, with special reference to predation by pseudoscorpions. 120 pp. (soil biology and ecology; Supervisor: W.G. Wellington)

1983 Ph.D. Department of Plant Science, & Institute of Animal Resource Ecology, University of British Columbia, Vancouver, B.C. Ph.D. dissertation: Dispersal, predation and weather in an orchard mite system. 183 pp. (computer modelling and field experimentation of predator-prey ecology and biological control; Supervisor: W.G. Wellington).

Awards and distinctions

During University training

- 1971 University of Minnesota, National Defense Student Loan Program
 1976 University of Saskatchewan Outstanding Second-year Student Award
 1980-1981 University of British Columbia Graduate Scholarship
 1982 Natural Sciences and Engineering Research Council (NSERC) Scholarship
 1982-1983 Izaak Walton Killam Post-graduate Scholarship.
 "Killam Scholars Who's Who", 2nd Edition. The Trustees of the Killam Estate.
 C.J. Dickinson and J.J. Smith, editors. No. 603: Johnson, Daniel Lloyd, p. 133. 1982.

Post-University training

- 1989-2009 Invited Plenary and Symposium Speaker, scientific conferences (Canada, Europe, China, US, Africa)

- 1992 C. Gordon Hewitt Award for Outstanding Achievement by an Individual under 40 (medal awarded by Entomological Society of Canada)
- 2000 Lethbridge Research Centre Staff Award (contributions to schools and public education)
- 2000 Service Award presented by the Entomological Society of Canada (President)
- 2001 Government of Canada "Distinction 2000 Award - Gold Medal" (insect forecasting team)
- 2002 "Green Crusader" cover story of the Canadian Geographic, May/June 2002 issue
- 2003 Service Award, Entomological Society of Canada (Bulletin Editor)
- 2004 Fellow International of the Explorer's Club (FIEC), and Member, Canadian Chapter
- 2009 Appointed by Provincial Legislature Order in Council, to a second term on the Alberta Environmental Appeals Board (a quasi-judicial tribunal)
- 2009 Nominated for the Jay Newman Award for Academic Integrity (University of Guelph) (nominated by distinguished researchers, including James Hanson, NAS; Stephen Schneider, NAS; James Byrne, Chair; Gary Clarke, FRSC; and 9 others)
- 2010 Subject of Science Alberta Career Video: "Biogeography and Biodiversity"

University courses taught.

Principles of Biogeography GEOG3850 & GEOG3090
 Geographic Information Systems GEOG3740 & GEOG4740
 Agroecosystem Modelling ECON3000 & ECON4310
 Environmental Science ENVS500 (First Nations Transition Program)
 Environmental Science ENVS4000, 2005: Agroecosystems
 Environmental Science ENVS4000, 2006: Ecosystem Monitoring
 Environmental Science ENVS4000, 2007: Impacts of Climate Change
 Environmental Science ENVS4000, 2008: Environmental Impacts
 Environmental Science ENVS4000, 2009: Sustainable Development
 STAT3850: Design and Analysis of Experiments
 GEOG2700: Geographical Data and Analysis

Co-teaching: ECON3850 Economics and Ecology of Natural Resources
 GEOG1010 Introduction to Geography
 Independent studies (17); Post-doc (2); PhD (2); MSc (6)

Publications in science.

Research (refereed scientific journals), 85; Other Scientific, 19; Books and book chapters, 6; Published photographs, 200+; Reports, 90+; Proceedings and abstracts, 150+; Technology transfer articles, 100+

Selected papers. <http://people.uleth.ca/~dan.johnson/htm/djpub.htm>

Citizenship.

Canadian (1983-), and U.S. (birth)

Family background. Dan Johnson has 4 sons and 2 daughters, all interested in science, engineering, sports, writing and the arts. His father, after serving 4 years as a US Marine in the Pacific (Solomon Islands, Marshall Islands; 5th and 8th AAA Bn) during WWII, worked as a senior control engineer with the U.S. Army Corp of Engineers, receiving a 35-year pin. Dan's mother worked a child welfare social worker for the state of Missouri.