

CURRICULUM VITAE
of
Bo Staffan Lindgren

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SPECIAL INTERESTS: Forest Insect Ecology and Management, Host plant – Insect Interactions

EDUCATION:

Gymnasium (High School) grade 12, 1966 - 1968, 1969 - 1970, Christinaskolan, Piteå, Sweden.
Filosofie Kandidat (F.K.), Umeå University (1971-74), and Uppsala University (1974-75), Sweden.

Master of Pest Management, (M.P.M.), Simon Fraser University, Burnaby, B.C., Canada, 1977 - 1979.

Doctor of Philosophy (Ph.D.), Simon Fraser University, Burnaby, B.C., Canada, 1979 -1982.

Special Courses:

Experimental Endocrinology, Umeå University, 1975 - 1976.

Forest Entomology, College of Forestry, Stockholm, 1976.

Forest Production, Umeå University, 1977.

LANGUAGES:

Fluent in Swedish and English; some German and limited Spanish.

SCHOLARSHIPS AND AWARDS:

Founders' Award, Western Forest Insect Work Conference, 2018. Made official April 2019 at the WFIWC meeting in Anchorage, Alaska.

Lifetime Achievement Award, Natural Resources and Environmental Studies Institute, UNBC, 2014

UNBC Research Excellence Award 2010

Merit Award, University of Northern British Columbia, 2000, 2001, 2010.

Merit Increments, University of Northern British Columbia, 2002, 2003, 2004, 2005, 2006, 2007

Award of Excellence, Professional Pest Management Association of British Columbia, February 16, 1995.

Visiting Scientist at the Department of Forest Entomology, Swedish University of Agricultural Sciences, Uppsala, Sweden, 1993, Funded by grant from Skogs- och Jordbrukets Forskningsråd (SJFR), Stockholm, Sweden to Dr. G. Nordlander, Department of Entomology, Swedish University of Agricultural Sciences, Uppsala, and Dr. G. Birgersson, Department of Chemical Ecology, University of Göteborg, Göteborg).

Industrial Post-Doctoral Fellowship, Science Council of British Columbia, 1984 - 1986.

Special Post-Doctoral Research Assistant in Forestry, Natural Sciences and Engineering Research Council of Canada, 1982 - 1984.
Graduate Research in Engineering and Technology (GREAT) Award, Science Council of British Columbia, 1979 - 1982.
Simon Fraser University Open Graduate Scholarship, Simon Fraser University, 1979, (declined).
Canron Limited - Sidney Hogg Memorial Graduate Scholarship, Simon Fraser University, 1978.
President's Research Grant, Simon Fraser University, 1978 and 1982.
Scholarship, Sweden-America Foundation, for studies in Canada, 1977.
Stenholms mindre stipendium (scholarship), Uppsala University, 1974.
Exchange Student, Youth for Understanding at Lakewood High School, Lake Odessa, Michigan, U.S.A., 1968 - 1969.

RESEARCH GRANTS:

Competitive Research Grant, "Trade-offs in the host selection by phloeophagous parasitic insects on conifers", Natural Sciences and Engineering Research Council of Canada, Discovery Grant, 2012-2017.
Research Award, "Sorting and identification of invertebrate specimens from a sub-set of pitfall trap samples", BC Ministry of Forests and Range, Nanaimo, BC, 2011-2012
Research Award, "Sorting and identification of invertebrate specimens from a sub-set of pitfall trap samples", BC Ministry of Forests and Range, Nanaimo, BC, 2010-2011
Research Grant, "*Leptoglossus* Mark-Release-Recapture (MRR) research", Forest Genetics Council of BC, Pest Management Technical Advisory Committee, 2008-2011.
Research Award, "A comparison of three bioindicator approaches for assessing ecosystem resilience in coastal forests", BC Ministry of Forests and Range, Nanaimo, BC, 2008-2011.
Competitive Seed Grant, "Has the mountain pine beetle outbreak selected for genotypes with lower susceptibility and/or higher suitability?", University of Northern British Columbia, 2011.
Competitive Equipment Grant, "Harmonic radar equipment for tracking insects", Natural Sciences and Engineering Research Council of Canada, Research Tools and Instruments Grant, 2010.
Competitive Research Grant, "Susceptibility and suitability factors in conifer hosts of phloeophagous insects", Natural Sciences and Engineering Research Council of Canada, Discovery Grant, 2006-2011.
Competitive Seed Grant, "Investigation of mountain pine beetle population dispersal through analysis of microsatellite DNA", University of Northern British Columbia (with Brent Murray (PI)), 2005.
Competitive Research Grant, "MPB population studies for prioritization of stand management during outbreak conditions", Canadian Forest Service, Federal Mountain Pine Beetle Initiative, (with Drs A. Carroll, T. Shore, and R. Alfaro), 2004-2007
Competitive Seed Grant, "Assessing spatial variability of mountain pine beetle remains in recent lake sediments", University of Northern British Columbia, (with Brian Menounos (PI)), 2003.

Competitive Research Grant, “Modelling of mountain pine beetle transport and dispersion using atmospheric models”, Canadian Forest Service, Federal Mountain Pine Beetle Initiative, (with Drs. P. Jackson (PI) and J. Ackerman), 2003-2006

Competitive Research Grant, “Invertebrate indicators for woody debris management”, Natural Sciences and Engineering Research Council of Canada, Collaborative Research Grant with Houston Forest Products, 2003-2006.

Competitive Seed Grant, “Physical Modelling of Dispersion of Insect Pheromones in Forest Canopies: Proof of Principle”, University of Northern British Columbia, (with Dr. J. Ackerman (PI) and Dr. P. Jackson), 2002.

Competitive Seed Grant, “Woody debris as nesting material for ants in Interior Douglas-fir and Sub-boreal spruce forests”, University of Northern British Columbia, 2001.

Competitive Research Grant, “Quantitative and qualitative properties of woody resources for insects”, Natural Sciences and Engineering Research Council of Canada, Operating Grant, 2001-2005.

Competitive Research Grant, “Chemical Ecology of Insect Succession in Wood”, Natural Sciences and Engineering Research Council of Canada, Operating Grant, 1997-2001.

Competitive Research Grant, “Retrospective Study of Ecological Processes: Forest Health”, McGregor Model Forest, 1995-1997 (with Dr. K.J. Lewis).

Competitive Research Grant, “Effects of Silvicultural Systems on Arthropod Community Structure: The effect of Patch Retention as Biodiversity Refugia”, Forest Renewal B.C., 1995-1998.

Competitive Research Grant, "Efficacy of Queen Bee Mandibular Pheromone to Enhance Yield in Honey Bee Pollinated Crops", Canadian Agri-Food Development Initiative (CAFDI), Agriculture Canada, 1993-1995.

Competitive Research Grant, "Developing Strategies and Techniques for Use of Aggregation Inhibiting Semiochemicals of Bark Beetles", Science Council of British Columbia, 1988 - 1991.

Competitive Research Grant, "New Methods for Manipulating Populations of Bark Beetles with Semiochemicals", Science Council of British Columbia, 1985 - 1988.

Research Grants: Kempes Minnesfond, Umeå University, Sweden, 1975, and 1977.

MILITARY SERVICE (Sweden):

Private, ICNN, Östersund; ICÖN, Boden; A8, Boden, 1970 - 1971.

PROFESSIONAL AND TEACHING EXPERIENCE:

Professor Emeritus, University of Northern British Columbia, Prince George, B.C., 2016-present

Professor, University of Northern British Columbia, Prince George, B.C., 2003-2015. Primary teaching responsibilities in Forest Health, Entomology, and Invertebrate Zoology. Research in Forest Entomology, and graduate student teaching and supervision.

Subject Editor, The Canadian Entomologist, The Entomological Society of Canada, Ottawa, ON, September 2011 – October 2014. Handle editorial process and recommend decision for 10-20 manuscripts per year.

Associate Editor, The Canadian Entomologist, The Entomological Society of Canada, Ottawa, ON, July 2008 – August 2011. Handle editorial process and recommend decision for 5-10 manuscripts per year.

Subject Editor, Insect-Plant Interactions, Environmental Entomology, Entomological Society of America, Lanham, MD, April 1, 2002- November 12, 2012. Handle editorial process, including decision, for 10-20 manuscripts per year.

Associate Chair, Ecosystem Science and Management Program, College of Science and Management, University of Northern British Columbia, Prince George, B.C., August 1, 2002 – June 30, 2004. Assist the Chair in day-to-day administration of the program.

Acting Dean, College of Science and Management, University of Northern British Columbia, Prince George, B.C. February 19-23, 2001. Representing the Dean and the College at meetings etc.

Acting Chair, Biology Program, University of Northern British Columbia, Prince George, B.C. July 1, 1999 - June 30, 2001. Assigning teaching loads, budgeting, and overseeing all program activities.

Acting Chair, Forestry Program, University of Northern British Columbia, Prince George, B.C. June 5 - July 7, 1995, and September 12-16, 1996. Representing the Forestry Program at internal and external meetings.

Associate Professor, University of Northern British Columbia, Prince George, B.C., 1994 - 2003. Primary teaching responsibilities in Forest Health, Entomology, and Invertebrate Zoology. Research in Forest Entomology, and graduate student supervision.

Research Director, Phero Tech Inc., Vancouver, B.C., 1984 - 1994. Responsible for research activities in biology. Duties include management of small research department, budgeting, liaison with scientists throughout the world, technical advice, obtaining external research funding, and conducting in-house research. Specializing in bark beetle management with pheromones.

Visiting Scientist, Department of Forest Entomology, Swedish University of Agricultural Sciences, Uppsala, Sweden, April-September, 1993. Conduct research on repellent semiochemicals of the pine weevil, *Hylobius abietis*.

Sessional Instructor, Simon Fraser University, Spring 1989. Taught graduate course in Forest Entomology, BISC 816, while working full time as Research Director at Phero Tech, Inc..

Post-Doctoral Fellow, University of British Columbia, Faculty of Forestry, 1982 -1984. Behavioural studies on ambrosia beetles and moths in a wind tunnel and in the field. Trap design and development.

Research Associate, Simon Fraser University, May 1982. Developed trap for grain beetles.

Consultant, PMG/Stratford Projects Ltd., Vancouver, B.C. 1982 - 1983. Advisory role in implementing pheromone-based management of ambrosia beetles.

Guest Instructor, Malaspina College, Nanaimo, B.C., 1979 - 1982, Forest Technology program; Simon Fraser University, Centre for Pest Management, 1981, Master of Pest Management professional forestry course; University of B.C., Department of Forest Science, 1983, Forest Entomology course; University of B.C., Department of Plant Science, 1985, Insect Physiology course; Simon Fraser University, Centre for Pest Management, 1992, Pest Management in Practice course.

Teaching Assistant, Biological Sciences Department, Simon Fraser University, 1978 -1980. Laboratory supervision, and teaching in tutorials to first (Introductory Biology), second (Ecology), and third (Entomology) year students.

Environmental Health Surveyor, Department of Health and Environment, Municipality of Umeå, Sweden, 1977. Surveying invertebrate benthic fauna of 3 streams to evaluate long

term pollution effects from sewage and agriculture. Published as mimeograph: "Bottenfaunainventering", Hälso- och Miljövårdsnämnden i Umeå Kommun, 5 pp., 3 tables, 6 figures.

Teaching Assistant (Amanuens), Department of Health and Environment, 1977, University of Umeå, Sweden. Tutorial teaching and administration of course in Resource Management, including leading a field trip to Leningrad and Petrozavodsk, USSR.

Teaching Assistant (Amanuens), Department of Medical Physiology, 1975 - 1976, Laboratory teaching in Endocrinology;

Forest Regeneration Appraiser, Svenska Cellulosa AB (SCA), Piteå, Sweden, 1974. Assessing survival of conifers planted and naturally regenerated on logged areas in northern Sweden.

Research Assistant (part-time), Department of Ecological Zoology, University of Umeå, Sweden, 1973 - 1977. Field and laboratory work on microtine rodents and spiders.

Secondary School Substitute Teacher, Christinaskolan and Strömbackaskolan, Piteå, Sweden, 1972 - 1976. Substitute teacher in Natural Sciences, Biology, and Physical Education to Grades 7 - 13.

COMMITTEE ASSIGNMENTS

Expert Reviewer, European Food Safety Authority (EFSA), Pest Surveillance Working Group, March 24, 2020 – present.

Member, NRES Institute Steering Committee, NRES Graduate Committee representative. 2013 – 2014.

External Member, Standing Academic Search Committee, Geography Program, UNBC, 2013-2014

Member, Natural Resources and Environmental Studies Graduate Committee, Forest Ecology and Management Program representative, 2011 – 2014.

Member, Board of Directors of the Aleza Lake Research Forest Society. Strategic planning and higher level decision-making for the governance of the Aleza Lake Research Forest, co-managed by the University of Northern British Columbia and the University of British Columbia. March 1, 2004 – 2009.

Member, University representative, Pest Management Technical Advisory Committee, Forest Genetics Council. Contribute to the direction of the Forest Pest Management Subprogram of the Forest Genetics Council funding for research under the Operational Tree Improvement Program. 2003 – 2011.

Member, FORREX Ecosystem Management/Conservation Biology Extension Program Working Group. Advise on strategic issues to FORREX. 2002 – 2010.

Member, Steering committee for the organization of the conference “The Future Forest Ecosystems of BC – Exploring the Opportunities”, Prince George, BC, December 5-6, 2005.

Chair, Organizing committee, IUFRO Working Party Meeting “Forest Insect Epidemics: Population Dynamics, Dispersal and Ecosystem Impacts”, UNBC, Prince George, July 11-14, 2005.

Chair, Interim Forest Health Council, BC Ministry of Forests, Victoria. January – November, 2000. Appointed by the Chief Forester to develop Terms of References for the Forest Health Council, and advisory body to the Chief Forester.

Member, Promotion and Tenure Committees. I have served on promotion and tenure committees numerous times, both as permanent member (College and University Promotion and Tenure Committee), rotating member (College Promotion and Tenure Committee), and as a member of the Promotion and Tenure Appeals Committee.

Chair, Forest Health Committee, Prince George Forest District, June - July, 1998. Chaired four strategic and tactical planning sessions involving local industry and government in order to facilitate agreement on management practices for bark beetles.

Chair, Forest Health Committee, Mackenzie Forest District, June-July, 1996. Chaired four strategic and tactical planning sessions involving local industry and government in order to facilitate agreement on management practices.

Chair, Graduate Studies Committee, Faculty of Natural Resources and Environmental Studies, University of Northern B.C., 1995-1996. Responsible for chairing meetings and reporting to Faculty Council.

Chair, Student Awards Committee, Entomological Society of Canada, 1997-2000.

Member, Graduate Studies Committee, Faculty of Natural Resources and Environmental Studies, University of Northern B.C. 1994 - 1995. Responsibility for teaching assistant allocation and funding, and the development and implementation of Faculty graduate studies policies.

Member, Student Awards Committee of the Entomological Society of Canada, 1995-1997.

Member, Forest Renewal BC Forest Health Review Committee, Science Council of British Columbia, 1995. Technical review of research proposals in forest health.

Member, Advisory Committee to Industrial Research Chair in Forest Pest Management to Dr. J.H. Borden, Simon Fraser University, Burnaby, B.C. 1991 - 1994.

Chair, Biological Sciences Sub-Committee of the Human Resource Committee, Science Council of British Columbia, 1989-1993. Chair committee meetings for evaluating applications and recommend recipients of graduate research awards.

Member, Human Resources Committee, Science Council of British Columbia, 1989-1993. Participate in developing policies and programs for the Science Council of B.C.

Chair, H.R. MacCarthy Lecture Committee, 1988 - 1994. Organized fund-raising activities for the H.R. MacCarthy Endowment Fund, and organized the H.R. MacCarthy Pest Management Lecture, March 20, 1990, October 1, 1991, October 23, 1992, and November 5, 1993.

Chair, Founder's Award Committee, Western Forest Insect Work Conference, 1992- 1995. Solicit submissions of nominations from the members of the WFIWC. Coordinate review process and present the award at the annual meetings.

Member, Founder's Award Committee, Western Forest Insect Work Conference, 1990 - 1992, 1995 - 2007. Review submissions for the Founder's Award.

Member, Review Committee of Five-year Bark Beetle Research Program, Pacific Forestry Centre, Forestry Canada, Victoria, B.C., January, 1988. Review of 5-year bark beetle research program at Pacific Forestry Centre.

Student representative, Curriculum Committee for the Biological Sciences Institution, University of Umeå, 1973-74

SUPERVISED POST-DOCTORAL FELLOWS

Niklas Björklund, Post-Doctoral Fellow, UNBC, Prince George, 2005-2007.

Daniel R. Miller, Science Council of BC Industrial Post-Doctoral Fellow, Phero Tech, Inc., Delta, BC, 1992-1994.

Juan Chang, Science Council of BC Industrial Post-Doctoral Fellow, Phero Tech, Inc., Delta, BC, 1984-86.

SUPERVISED STUDENTS

Senior Supervisor

Stuart Taylor, M.Sc. program, University of Northern British Columbia, Prince George, B.C., 1994 - 1997.

Ann Tobin, M.Sc. Program, University of Northern British Columbia, Prince George, B.C., Co-supervised with Kathy Lewis, 1994 - 1995. (Withdrawn)

Lynn Rocchini, M.Sc. (NRM) Program, University of Northern British Columbia, Prince George, B.C., 1995 - 1997.

Jeff Lemieux, M.Sc. (Biology) Program, University of Northern British Columbia, Prince George, B.C., 1995 - 1998.

Katherine Bleiker, M.Sc. (NRM) Program, University of Northern British Columbia, Prince George, B.C., 1998 - 2001.

Robert Higgins, Ph.D. (NRES) Program, University of Northern British Columbia, 2001 – 2010.

Jeanne Robert, M.Sc. (NRES) Program, University of Northern British Columbia, 2002 – 2004.

Tim Cudmore, M.Sc. (NRES) Program, University of Northern British Columbia, 2004 – 2009.

Greg Smith, M.Sc. (NRES) Program, University of Northern British Columbia, 2004 – 2008.
Co-supervised with Dr. Allan Carroll, Canadian Forest Service.

Duncan McColl, M.Sc. (NRES) Program, University of Northern British Columbia, 2005 – 2010.

Marnie Graf, M.Sc. (NRES) Program, University of Northern British Columbia, 2005 - 2009.

Sean Henderson, M.Sc. (NRES) Program, University of Northern British Columbia, 2008 - 2010.

Kendra Schotzko, M.Sc. (NRES) Program, University of Northern British Columbia, 2009 - 2012.

Tamara Richardson, M.Sc. (NRES) Program, University of Northern British Columbia, 2008 - 2013.

Sharleen Balogh, M.Sc. (NRES) Program, University of Northern British Columbia, 2012 - 2015. Co-supervised with Dr. Dezene Huber.

Member, Supervisory Committee

Scott S. Salom, Ph.D. program, University of B.C., Vancouver, B.C., 1985-89.

Alejandro Camacho-Vera, Ph.D. program, Simon Fraser University, Burnaby, B.C., 1991-1993.

Ian M. Wilson, Master of Pest Management program, Simon Fraser University, Burnaby, B.C., 1993-1995.

Therese M. Poland, Ph.D. program, Simon Fraser University, Burnaby, B.C., 1993-1997.

Rory L. McIntosh, Master of Science Forestry program, University of B.C., Vancouver, B.C., 1993-1994.

Michael Burwash, Master of Science Forestry program, University of B.C., Vancouver, B.C., 1993-1996.

Robert Setter, Master of Pest Management program, Simon Fraser University, Burnaby, B.C., 1993-1997.

Susanna Carson (nee Guthrie), M.Sc. Program, University of British Columbia, Vancouver, B.C., 1996 - 2002.

Trent Hoover, M.Sc. (Biology) Program, University of Northern British Columbia, 1996 - 2001.

Jenia Yannick, M.Sc. (Biology) Program, University of Northern British Columbia, 1996 - 2002.

Kevin Fort, M.Sc. (NRES) Program, University of Northern British Columbia, 1999 - 2003.

Harry vanOort, M.Sc. (NRES) Program, University of Northern British Columbia, 1999 - 2003.

Erin O'Brien, M.Sc. (NRES) Program, M.Sc. (NRES) Program, University of Northern British Columbia, 2002 - 2006.

Douglas Thompson, M.Sc. (NRES) Program, University of Northern British Columbia, 2002 - 2005.

Brenda Leatham, M.Sc. (NRES) Program, University of Northern British Columbia, 2003 – 2007. (Withdrawn)

Jaco Krüger, M.Sc. (MCPS) Program, University of Northern British Columbia, 2005 - present (On leave).

Matthew Klingenberg, M.Sc. (NRES) Program, University of Northern British Columbia, 2006 - 2008.

Honey-Marie de la Giroday, M.Sc. (NRES) Program, University of Northern British Columbia, 2006 - 2009.

Erin Clark, M.Sc. (NRES) Program, University of Northern British Columbia, 2006 - 2008.

Nicholas Bartell, M.Sc. (NRES) Program, University of Northern British Columbia, 2007 - 2008.

Fraser McKee, M.Sc. (NRES) Program, University of Northern British Columbia, 2007 - 2010.

Angelique Grava, Ph.D. (NRES) Program, University of Northern British Columbia, 2008 – 2012.

Gayathri Samarasekera, M.Sc. (NRES) Program, University of Northern British Columbia, 2008 – 2011.

Erin Clark, Ph.D. (NRES) Program, University of Northern British Columbia, 2008 – present.

Chris Konchalski, M.Sc. (NRES) Program, University of Northern British Columbia, 2008 – 2014.

Chris Hansen, M.Sc. (NRES) Program, University of Northern British Columbia, 2010 – 2011 (Withdrawn).

Aija White, Ph.D. (NRES) Program, University of Northern British Columbia, 2013 –present.

Ian Higgins, M.Sc. (NRES) Program, University of Northern British Columbia, 2014 –2017.

External or Public Examiner

External Examiner, Elana Varner, PhD candidacy exam, Simon Fraser University, November 26, 2019.

External Examiner, Andreas Fischer, PhD candidacy exam, Simon Fraser University, September 12, 2019.

External Examiner, Tamara Babcock, MPM Program, Simon Fraser University, July 3, 2018.

External Examiner, Mike Hrabar, PhD candidacy exam, Simon Fraser University, January, 2018

Internal Examiner, Veronika Lambinet, Ph.D. Program, Simon Fraser University, Burnaby B.C., November 10, 2017.

Internal Examiner, Samantha Vibert, Ph.D. Program, Simon Fraser University, Burnaby B.C., August 15, 2016.

External Examiner, Crisia Tabacaru, Ph.D. Program, University of Alberta, March 24, 2015.

External Examiner, Tyler Wist, Ph.D. Program, University of Alberta, May 6, 2014

Public Examiner, Alex Chubaty, Ph.D. Program, Simon Fraser University, Burnaby B.C., 26 September, 2013.

External Examiner, Devin Goodsman, Ph.D. Program, University of Alberta, Edmonton, AB, 2 November, 2012.

External Examiner, Leah Flaherty, Ph.D. Program, University of New Brunswick, Fredericton, NB., 11 September, 2012.

External Examiner, Ingrid Aguayo, Ph.D. program, University of Toronto, Toronto, ON, January 30, 2007.

Public Examiner, Mark Sidney, Master of Science program, Simon Fraser University, Burnaby B.C., July 26, 2005.

Public Examiner, Darrell R. Devlin, Master of Pest Management program, Simon Fraser University, Burnaby B.C., April 10, 1992.

Public Examiner, Barry C. Kostyk, Master of Pest Management program, Simon Fraser University, Burnaby, B.C., July 15, 1992.

Public Examiner, W. Wade Bowers, Ph.D., Simon Fraser University, Burnaby, B.C., August 5, 1992.

MEMBERSHIP OF SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS:

Entomological Society of America

Entomological Society of Canada
2nd Vice-President 2012-2013, 1st Vice-President 2013-2014, President 2014-2015

Entomological Society of British Columbia
Director, 1986-1988, 1992-1994
President Elect 1996-97
President 1997-98

Professional Pest Management Association of British Columbia
Vice President 1983 - 1984;
President 1984 - 1985;
Editor of Newsletter 1987 - 1990.

International Society of Chemical Ecology

Association of Professional Biologists of British Columbia (Registered Professional Biologist 1984-2003).
Director-at-Large, 1988-1990.

College of Applied Biology (Registered Professional Biologist 2003-2010).

Association of Professional Biology (2003-2010)

Western Forest Insect Work Conference
Councilor, 1992-94.

Canadian Institute of Forestry

Federation of BC Naturalists

International Union for the Study of Social Insects

Canadian Society for Ecology and Evolution

PAPERS PRESENTED AT SCIENTIFIC AND PROFESSIONAL MEETINGS:

- Invited symposium presentation, Annual Meeting of the Entomological Society of America, Knoxville, Tennessee, November 11-14, 2012.
- Natural Resources and Environmental Studies Institute colloquium series, UNBC, Prince George, September 23, 2011.
- North American Forest Insect Work Conference, Portland, Oregon, May 9-12, 2011.
- Invited panel presentation, North American Forest Insect Work Conference, Portland, Oregon, May 9-12, 2011.
- Annual Meeting of the Entomological Society of America, San Diego California, December 12-15, 2010.
- Invited presentation, Heritage Lecture, Entomological Society of Canada, Vancouver, BC, October 31-November 3, 2010
- Entomological Society of Canada, Vancouver, BC, October 31-November 3, 2010
- Invited presentation, Skogskonferensen (The Forestry Conference), Uppsala, Sweden, November 22-24, 2009.
- Invited panel presentation, Professional Pest Management Association of BC, Annual General Meeting, Burnaby, BC, February 17, 2009.
- Invited seminar, Swedish University of Agricultural Sciences, Department of Ecology, Uppsala, Sweden, August 13, 2008.
- Invited presentation, Integrated and Environmental Plant Management Association 12th Annual Workshop and Conference, Kelowna, BC, January 25, 2008.
- Invited presentation to a Mountain Pine Beetle / Fire Task Team Meeting at the Regional Office of the BC MoFR, Prince George, BC, April 17, 2007.
- Invited presentation at the PG LOWG Biodiversity Workshop – Tools for effective management of biodiversity at multiple scales, Prince George, BC, January 18, 2007
- Invited Speaker, Annual Meeting of the Entomological Society of America, Indianapolis, OH, December 9-13, 2006.
- Invited speaker, Stand Up for the North Conference, Prince George, BC, November 4-5, 2006.
- 13th International Boreal Forest Research Association, Umeå, Sweden, August 28-30, 2006.
- Invited speaker, Northern Silviculture Committee, Prince George, BC, Jan. 17-19, 2006.
- Invited keynote speaker, 9th Annual Integrated Forest Pest Management Meeting, Edmonton, AB, October 7, 2005.
- Invited seminars, Swedish University of Agricultural Sciences, Department of Animal Ecology, Umeå, Sweden, May 4, 2005, and Department of Entomology, Uppsala, Sweden, May 13, 2005.
- NRES Colloquium, University of Northern BC, January 28, 2005.
- Invited speaker, Verbenone workshop, Joint meeting of the Western Forest Insect Work Conference and the Western International Forest Disease Work Conference, San Diego, CA, April 26-30, 2004.
- Invited speaker, Ecology and Management of Sesiid Pests symposium, Annual Meeting of the Entomological Society of America, Cincinnati, OH, October 25-29, 2003.
- IUFRO working party on Insect-Tree Interactions, Flagstaff, AZ, June 10-14, 2002.
- 10th Annual Alberta/British Columbia Intermountain Forest Health Workshop, Jasper, AB, April 15-16, 2002.

Annual Meeting of the Entomological Society of America, San Diego, CA, December 9-13, 2001 (Poster).

Annual Meeting of the Entomological Society of Canada, Niagara Falls, ON, October 20-24, 2001 (Poster)

Invited speaker, Department of Entomology, University of Georgia, Athens, GA., September 24, 2001

Joint Annual Meetings of the Entomological Societies of Quebec, Canada, and America, Montreal, QC, December 4-8, 2000 (Poster and invited presentation)

Ecology and Management of Dead Wood in Western Forests symposium, November 2-4, 1999, Reno, NV.

Entomological Society of America, Annual Meeting, Louisville, KY, 1996 (Poster)

IUFRO Working Parties on Population Dynamics, Insects Affecting Reforestation, and Scolytid Bark Beetles, Vallombrosa, Italy, 1996.

Invited speaker, Semiochemical workshop, Entomological Society of Canada, Annual Meeting, Winnipeg, Manitoba, October 1994.

Invited speaker, Informal Conference on "Application of Semiochemicals for Management of Bark Beetle Infestations", Entomological Society of America, Annual Meeting, Indianapolis, Indiana, December 1993.

Invited speaker, Department of Chemical Ecology, University of Göteborg, Göteborg, Sweden, August 1993.

Invited speaker, Department of Ecology, University of Lund, Lund, Sweden, August 1993.

Invited speaker, Department of Plant and Forest Protection, Swedish University of Agricultural Sciences, Uppsala, Sweden, April 1993.

Entomological Society of America, Annual Meeting, Reno, Nevada, 1991.

Invited lecturer, Centre for Pest Management, Simon Fraser University, February 3, 1992.

Invited speaker, Department of Entomology, University of Georgia, Athens, GA., June 1, 1990.

Invited speaker, USDA, Agricultural Research Service, Semiochemical Research Planning Meeting, Atlanta, GA., May 10, 1990.

Invited speaker, California Forest Pest Action Council, Nov. 15, 1989.

Invited speaker, Department of Entomology, University of California, Riverside, CA., Nov. 7, 1988.

Invited speaker, Mountain pine beetle symposium, Kalispell, Montana, 1988.

XVIII International Congress of Entomology, Vancouver, B.C., 1988.

Invited speaker, Pheromone Symposium, Entomological Society of America, Annual Meeting, Boston, Massachusetts, 1987.

Entomological Society of America, Annual Meeting, San Antonio, Texas, 1984.

XVII International Congress of Entomology, Hamburg, West Germany, 1984.

IUFRO Working Parties on Population Dynamics and Scolytid Bark Beetles, Göttingen, West Germany, 1984

Professional Pest Management Association of British Columbia, Annual Meeting, Burnaby, B.C., 1982.

Entomological Society of America, Annual Meeting, Atlanta, Georgia, 1980.

Entomological Society of British Columbia, Annual Meeting, Vancouver, B.C., 1980

REVIEWS

Peer reviewer, scientific manuscripts. Journal of Applied Forestry, Journal of Entomological Society of B.C., Experientia, Canadian Entomologist, Environmental Entomology, Journal of Economic Entomology, Journal of Chemical Ecology, Journal of Insect Behavior, International Journal of Wildfire Research, Scandinavian Journal of Forest Research, Canadian Journal of Forest Research, Journal of Arachnology, Behavior, Phytoprotection, Tree Physiology, Agricultural and Forest Entomology, Forest Ecology and Management, Ecological Monographs, Basic and Applied Ecology, Ecography, Australian Journal of Zoology, Canadian Field-Naturalist, Journal of Applied Entomology, Great Lakes Entomologist, Symposium Proceedings (Invertebrates in Dead Wood symposium, International Congress of Entomology, Brisbane, Australia, 2006), Behaviour, Forests, Journal of Entomological Science, Songklanakarinn Journal of Science and Technology, Entomological Research.

Expert reviewer, research grant applications. Fonds de recherche du Québec (New University Researchers Start-up Program), Natural Sciences and Engineering Research Council of Canada (Discovery grants, Strategic grants, CRD grants), US Department of Agriculture (SBIR), US Department of Agriculture (Southern Forest Research Station), University of Alberta (ACA Grants in Biodiversity), Forest Renewal BC, British Columbia Forest Innovation Investment (Forest Science Program, LOI stage and full proposal stage), Research Council of Norway (remunerated), OARDC Internal Grant (Ohio State University), Alberta Ingenuity Fund (new faculty grant, remunerated).

External reviewer, promotion and tenure applications. External reviewer for promotion and tenure applications for colleagues at Oregon State University (2), University of Kentucky (2), University of Windsor (1), University of British Columbia (1)(declined), and the US Department of Agriculture (2).

PATENTS:

Multiple funnel trap for scolytid beetles. Canadian, U.S., and European patents (expired).
Method and composition for controlling mountain pine beetles. U.S. patent (expired).
Beetle attractant (for *Oryzaephilus surinamensis*). U.S. patent (expired).

OTHER ACTIVITIES:

Golf, kayaking, fly fishing, bird watching, gardening, carpentry, bonsai trees, hiking, photography.

REFERENCES AVAILABLE UPON REQUEST